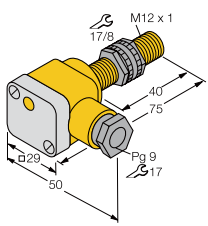
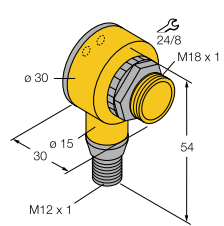
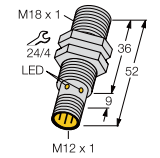
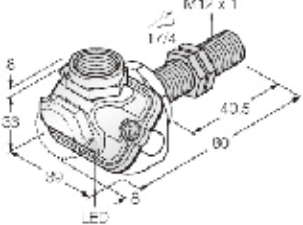
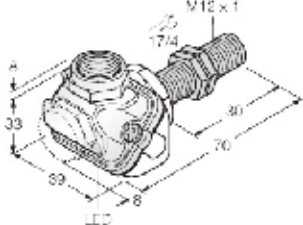


型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI4U-M12E-VP44X</b>	1634868 ✕	S007	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI4U-M12E-VN44X</b>	1634872	S010	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI3U-M12E-VP4X</b>	1580203 ✕	S007	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI3U-EM12E-VN4X</b>	1580362	S010	3	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>BI3U-M12E-VN4X</b>	1580302	S010	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI2U-M12E-AD4X</b>	4405062	S013	0.02	0...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI10U-EM12WD-AP6X</b>	1634813 ✕	S001	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI10U-EM12WD-AN6X</b>	1634838	S004	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI10U-M12-AP6X</b>	1634805 ✕	S001	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI10U-M12-AN6X</b>	1634825 ✕	S004	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI8U-M12-AP6X</b>	1644100 ✕	S001	2	-30...+85	IP67	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI8U-EM12-AP6X</b>	1644300 ✕	S001	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI8U-M12-AN6X</b>	1644120 ✕	S004	2	-30...+85	IP67	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI8U-EM12-AN6X</b>	1644320	S004	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI10U-M12E-VP44X</b>	1634870 ✕	S007	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI10U-M12E-VN44X</b>	1634874	S010	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI8U-M12E-VP4X</b>	1580406 ✕	S007	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI8U-M12E-VN4X</b>	1580501 ✕	S010	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI3U-EG12SK-AP6X</b>	1634400 ✕	S003	3	-30...+85	IP68	VA	PBT	-	-	•
<b>BI3U-EG12SK-VP4X</b>	1580601 ✕	S009	3	-30...+85	IP68	VA	PBT	-	-	•
<b>BI3U-EG12SK-AN6X</b>	1634420	S006	3	-30...+85	IP68	VA	PBT	-	-	•
<b>BI3U-EG12SK-VN4X</b>	1580701	S012	3	-30...+85	IP68	VA	PBT	-	-	•
<b>NI8U-EG12SK-AP6X</b>	1644400 ✕	S003	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI8U-EG12SK-VP4X</b>	1580901 ✕	S009	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI8U-EG12SK-AN6X</b>	1644420	S006	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI8U-EG12SK-VN4X</b>	1580902	S012	2	-30...+85	IP68	VA	PBT	-	-	•

✕ = 优选型号

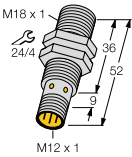











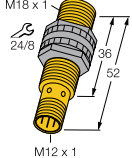





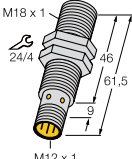








# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
	<b>M12 x 1</b>	<i>uprox</i> <sup>®</sup>	3,	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	3,	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	8,	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	8,	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup>	5,	—, PNP	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> +	8,	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	8,	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	8,	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5,	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5,	—, NPN	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b>	<i>uprox</i> <sup>®</sup> +	4,	—, PNP	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b>	T+100°C Ⓢ II 2 G, ID SIL2	2,	NAMUR	nom. 8.2 VDC	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI3U-P12SK-AP6X</b>	1634700 ✕	S003	3	-30...+85	IP68	PA	PA	-	-	•
<b>BI3U-P12SK-AN6X</b>	1634720	S006	3	-30...+85	IP68	PA	PA	-	-	•
<b>NI8U-P12SK-AP6X</b>	1644700 ✕	S003	2	-30...+85	IP68	PA	PA	-	-	•
<b>NI8U-P12SK-AN6X</b>	1644720	S006	2	-30...+85	IP68	PA	PA	-	-	•
<b>BI5U-T18-AP6X2-H1141</b>	1635136 ✕	S002	2	-30...+85	IP68	PBT	PBT	-	•	•
<b>BI8U-M18-AP6X-H1141</b>	1644731 ✕	S002	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI8U-M18-RP6X-H1141</b>	1644750 ✕	S056	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI8U-M18-AN6X-H1141</b>	1644737 ✕	S005	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI5U-M18-AP6X-H1141</b>	1635140 ✕	S002	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI5U-M18-AN6X-H1141</b>	1635150 ✕	S005	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI4U-EM12WDTC-AP6X</b>	1634760 ✕	S003	2	-40...+100	IP68/IP69K	V4A (1.4404)	LCP	-	-	•
<b>BI2-EM12WDTC-YIX</b>	4012051 ✕	S027	5	-40...+100	IP68/IP69K	V4A (1.4404)	LCP	-	-	•

✕ = 优选型号

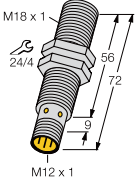





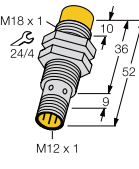
















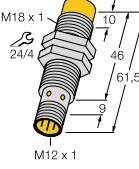






# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流I <sub>e</sub> [mA]	
	<b>M18 x 1</b> 	PTFE <i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...30 VDC	200 DC, (K)
		⊕ II 3 G ⊕ II 3 D 15 bar <i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...30 VDC	200 DC, (K)
		PTFE <i>uprox</i> <sup>®</sup> +	8, 	—, NPN	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	8, 	—, NPN	10...30 VDC	200 DC, (K)
		⊕ II 3 G ⊕ II 3 D 15 bar <i>uprox</i> <sup>®</sup> +	8, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
		PTFE <i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...30 VDC	200 DC, (K)
		PTFE <i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...55 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...55 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	8, 	—, NPN	10...55 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...65 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...65 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	5, 	—, 2-wire	10...65 VDC	100 DC, (K)
PTFE <i>uprox</i> <sup>®</sup> +	5, 	—, 2-wire	10...65 VDC	100 DC, (K)		

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌┐
<b>BI8U-MT18-AP6X-H1141</b>	1644730 ✕	S002	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>BI8U-EM18WD-AP6X-H1141</b>	1634816 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AP6X-H1141/ 3GD</b>	1634853 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-MT18-AN6X-H1141</b>	1644739	S005	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>BI8U-EM18WD-AN6X-H1141</b>	1634839	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AN6X-H1141/ 3GD</b>	1634854	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI5U-EM18-AP6X-H1141</b>	1635340 ✕	S002	2.5	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5U-MT18-AP6X-H1141</b>	1635240 ✕	S002	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>BI5U-EM18-AN6X-H1141</b>	1635350 ✕	S005	2.5	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5U-MT18-AN6X-H1141</b>	1635250	S005	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>BI5U-S18-AP6X-H1141</b>	1635600 ✕	S002	2.5	-30...+85	IP68	PBT	PBT	-	-	•
<b>BI5U-S18-AN6X-H1141</b>	1635620	S005	2.5	-30...+85	IP68	PBT	PBT	-	-	•
<b>NI12U-S18-AP6X-H1141</b>	1645600 ✕	S002	2	-30...+85	IP68	PBT	PBT	-	-	•
<b>NI12U-S18-AN6X-H1141</b>	1645620	S005	2	-30...+85	IP68	PBT	PBT	-	-	•
<b>BI8U-M18M-VP44X-H1141</b>	1634877 ✕	S008	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI8U-EM18MWD-VP44X- H1141</b>	1634897	S008	1.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-M18M-VN44X-H1141</b>	1634881 ✕	S011	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI5U-M18M-VP4X-H1141</b>	1581255 ✕	S008	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI5U-M18M-VN4X-H1141</b>	1581311	S011	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI5U-M18M-AD4X-H1144</b>	4405066	S99	0.01	-25...+70	IP68	CuZn-Cr	LCP	-	-	•
<b>BI5U-MT18M-AD4X-H1144</b>	4405068	S99	0.01	-25...+70	IP68	CuZn-PTFE	LCP-PTFE	-	-	•

✕ = 优选型号

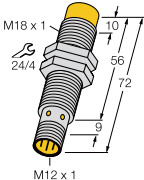




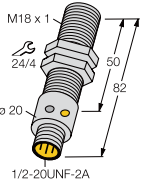




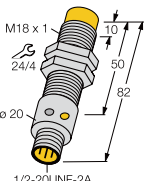




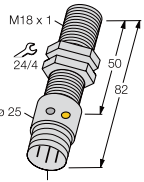




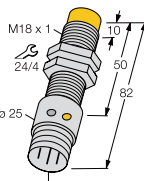




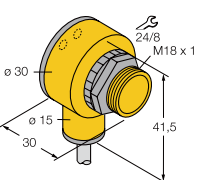




# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M18 x 1</b> 	teflon <i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	8, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	8, 	—, NPN	10...30 VDC	200 DC, (K)
		teflon <i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		teflon <i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		wash down				
		⊕ II 3 D 15 bar <i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		wash down				
		<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, (K)
		teflon <i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, (K)
		wash down				
		⊕ II 3 D 15 bar <i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, (K)
		wash down				
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
		teflon <i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)		
teflon <i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)		
<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)		
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...55 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...55 VDC	200 DC, (K)
		wash down				
		<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...55 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...65 VDC	200 DC, (K)
<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...65 VDC	200 DC, (K)		

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
BI8U-MT18E-AP6X-H1141	1644752	S002	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
BI8U-M18E-AP6X-H1141	1644735 ✘	S002	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI8U-M18E-AN6X-H1141	1644751	S005	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI5U-MT18E-AP6X-H1141	1635248 ✘	S002	2.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI15U-M18-AP6X-H1141	1635331 ✘	S002	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI15U-MT18-AP6X-H1141	1635333 ✘	S002	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
NI15U-EM18WD-AP6X-H1141	1634818 ✘	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
NI15U-EM18WD-AP6X-H1141/3D	1634859 ✘	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
NI15U-M18-RP6X-H1141	1635450 ✘	S056	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI15U-M18-AN6X-H1141	1635335 ✘	S005	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI15U-MT18-AN6X-H1141	1635337	S005	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
NI15U-EM18WD-AN6X-H1141	1634835	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
NI15U-EM18WD-AN6X-H1141/3D	1634860	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
NI12U-EM18-AP6X-H1141	1645340 ✘	S002	2	-30...+85	IP68	VA	PBT	-	-	•
NI12U-M18-AP6X-H1141	1645140 ✘	S002	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI12U-MT18-AP6X-H1141	1645240 ✘	S002	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI12U-EM18-AN6X-H1141	1645350 ✘	S005	2	-30...+85	IP68	VA	PBT	-	-	•
NI12U-MT18-AN6X-H1141	1645250 ✘	S005	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI12U-M18-AN6X-H1141	1645150 ✘	S005	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI15U-M18M-VP44X-H1141	1634879 ✘	S008	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI15U-EM18MWD-VP44X-H1141	1634898	S008	1.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
NI15U-M18M-VN44X-H1141	1634883 ✘	S011	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI12U-M18M-VP4X-H1141	1581458 ✘	S008	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI12U-M18M-VN4X-H1141	1581552 ✘	S011	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•

✘ = 优选型号

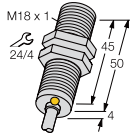





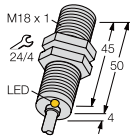







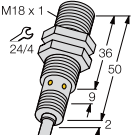



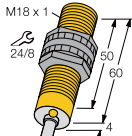









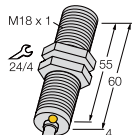








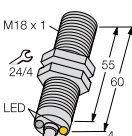



# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 12, 	 , PNP	10...30 VDC	200 DC, 
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 5, 		20...250 VAC 10...300 VDC	400 AC 300 DC, 
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 12, 		20...250 VAC 10...300 VDC	400 AC 300 DC, 
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 5, 		20...250 VAC 10...300 VDC	400 AC 300 DC, 
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 12, 		20...250 VAC 10...300 VDC	400 AC 300 DC, 
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> 5, 	 , PNP	10...30 VDC	200 DC, 

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>NI12U-M18E-AP6X-H1141</b>	1645143 <b>x</b>	S002	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI5U-G18-ADZ30X2-B3331</b>	4281213	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>NI12U-G18-ADZ30X2-B3331</b>	4281413	S153	0.02	-30...+85	IP67	CuZn-Cr	PA	-	•	•
<b>BI5U-G18-ADZ30X2-B1331</b>	4281212 <b>x</b>	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>NI12U-G18-ADZ30X2-B1331</b>	4281412 <b>x</b>	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>BI5U-T18-AP6X2/S90</b>	1635135 <b>x</b>	S001	2	-30...+85	IP68	PBT	PBT	PUR 2 m	•	•

**x** = 优选型号

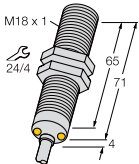





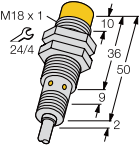



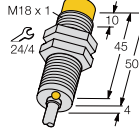







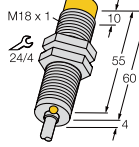






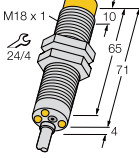



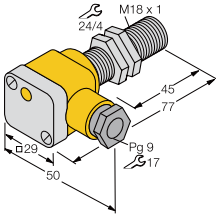





# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> 5, 	—, PNP	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, NPN	10...30 VDC	200 DC, 	
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> +	—, PNP	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> +	—, NPN	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, PNP	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, NPN	10...30 VDC	200 DC, 	
	<b>M18 x 1</b>	15 bar <i>uprox</i> <sup>®</sup> +	—, PNP	10...30 VDC	200 DC, 	
		15 bar <i>uprox</i> <sup>®</sup> +	—, NPN	10...30 VDC	200 DC, 	
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> 5, 	—, PNP	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, NPN	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 12, 	—, PNP	10...30 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 12, 	—, NPN	10...30 VDC	200 DC, 	
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> +	—, PNP	10...55 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> +	—, NPN	10...55 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, PNP	10...65 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> 5, 	—, NPN	10...65 VDC	200 DC, 	
		<i>uprox</i> <sup>®</sup> +	—, 2-wire	10...65 VDC	100 DC, 	
	<b>M18 x 1</b>	<i>uprox</i> <sup>®</sup> 5, 	—	20...250 VAC 10...300 VDC	400 AC 300 DC, 	
						

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI5U-EM18-AP6X</b>	1635300 ✕	S001	2.5	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>BI5U-EM18-AN6X</b>	1635320 ✕	S004	2.5	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>BI8U-M18-AP6X</b>	1644733 ✕	S001	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI8U-M18-AN6X</b>	1644736	S004	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI5U-M18-AP6X</b>	1635100 ✕	S001	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI5U-M18-AN6X</b>	1635120 ✕	S004	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI8U-EM18WD-AP6X</b>	1634815 ✕	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI8U-EM18WD-AN6X</b>	1634840	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI5U-S18-AP6X</b>	1635500 ✕	S001	2.5	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
<b>BI5U-S18-AN6X</b>	1635520	S004	2.5	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
<b>NI12U-S18-AP6X</b>	1645500 ✕	S001	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
<b>NI12U-S18-AN6X</b>	1645520	S004	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
<b>BI8U-M18M-VP44X</b>	1634876 ✕	S007	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI8U-M18M-VN44X</b>	1634880	S010	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI5U-M18M-VP4X</b>	1581201 ✕	S007	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI5U-M18M-VN4X</b>	1581310	S010	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI5U-M18M-AD4X</b>	4405067	S013	0.01	-25...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI5U-M18-ADZ30X2</b>	4282210 ✕	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•

✕ = 优选型号

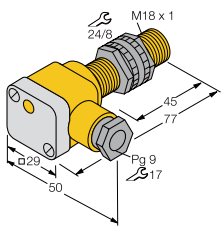





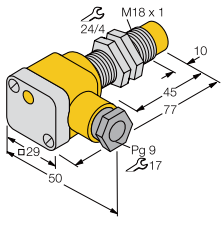





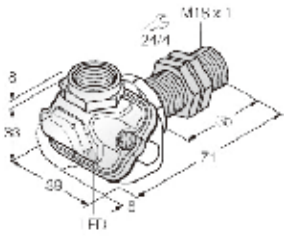


# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
	<b>M18 x 1</b> 	转速监控	5, 	—, PNP	10...65 VDC	200 DC, (K)
		转速监控	5, 	—, PNP	10...65 VDC	200 DC, (K)
		转速监控	5, 	—, PNP	10...65 VDC	200 DC, (K)
		转速监控	5, 	—, PNP	10...65 VDC	200 DC, (K)
	<b>M18 x 1</b> 	15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...55 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...55 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, PNP	10...65 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—, NPN	10...65 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	12, 	—	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
	<b>M18 x 1</b> 	转速监控	12, 	—, PNP	10...65 VDC	200 DC, (K)
		转速监控	12, 	—, PNP	10...65 VDC	200 DC, (K)
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...65 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...65 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>DBI5U-M18E-AP4X2 50/MIN</b>	1582239 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI5U-M18E-AP4X2 500/MIN</b>	1582229	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI5U-M18E-AP4X3</b>	1582236 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTBI5U-M18E-AP4X3</b>	1582237 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>NI15U-EM18WD-AP6X</b>	1634817 ✕	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15U-EM18WD-AN6X</b>	1634836	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15U-M18-AP6X</b>	1635330 ✕	S001	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI15U-M18-AN6X</b>	1635334	S004	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI12U-M18-AP6X</b>	1645100 ✕	S001	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI12U-EM18-AP6X</b>	1645300 ✕	S001	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI12U-M18-AN6X</b>	1645120 ✕	S004	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI12U-EM18-AN6X</b>	1645320 ✕	S004	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI15U-M18M-VP44X</b>	1634878 ✕	S007	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI15U-M18M-VN44X</b>	1634882	S010	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI12U-M18M-VP4X</b>	1581403 ✕	S007	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI12U-M18M-VN4X</b>	1581501	S010	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI12U-M18-ADZ30X2</b>	4282410 ✕	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DNI12U-M18E-AP4X3</b>	1582235 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTNI12U-M18E-AP4X3</b>	1582234 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>BI5U-EG18SK-AP6X</b>	1635400 ✕	S003	2.5	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5U-EG18SK-VP4X</b>	1581601 ✕	S009	2.5	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5U-EG18SK-AN6X</b>	1635420	S006	2.5	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5U-EG18SK-VN4X</b>	1581701	S012	2.5	-30...+85	IP68	VA	PBT	-	-	•

✕ = 优选型号

# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup>	5,  —, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	5,  —, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	12,  —, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	12,  —, NPN	10...30 VDC	200 DC, (K)	
	<b>M18 x 1</b> 	<i>uprox</i> <sup>®</sup>	12,  —, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	12,  —, PNP	10...65 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	12,  —, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	12,  —, NPN	10...65 VDC	200 DC, (K)	
	<b>M18 x 1</b> 	T+100°C	5,  —, NAMUR	nom. 8.2 VDC	—	

型号	订货号	连接方式 (IEC 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (IEC 334)	感应面 (IEC 334)	导线 (IEC 334)	LED U <sub>B</sub>	LED ┌
<b>BI5U-P18SK-AP6X</b>	1635700 <b>x</b>	S003	3	-30...+85	IP68	PBT	PBT	-	-	•
<b>BI5U-P18SK-AN6X</b>	1635720	S006	3	-30...+85	IP68	PBT	PBT	-	-	•
<b>NI12U-P18SK-AP6X</b>	1645700 <b>x</b>	S003	2	-30...+85	IP68	PBT	PBT	-	-	•
<b>NI12U-P18SK-AN6X</b>	1645720	S006	2	-30...+85	IP68	PBT	PBT	-	-	•
<b>NI12U-EG18SK-AP6X</b>	1645400 <b>x</b>	S003	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI12U-EG18SK-VP4X</b>	1581801 <b>x</b>	S009	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI12U-EG18SK-AN6X</b>	1645420	S006	2	-30...+85	IP68	VA	PBT	-	-	•
<b>NI12U-EG18SK-VN4X</b>	1581901	S012	2	-30...+85	IP68	VA	PBT	-	-	•
<b>BI5-EM18WDTC-YIX</b>	4012061 <b>x</b>	S027	1	-40...+100	IP68/IP69K	V4A (1.4404)	LCP	-	-	•

**x** = 优选型号

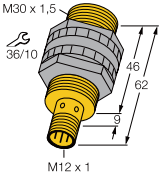





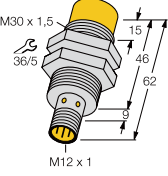



















# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M30 x 1,5</b>					
	<i>uprox</i> <sup>®</sup> +	15,	, PNP	10...30 VDC	200 DC,	
	PTFE <i>uprox</i> <sup>®</sup> +	15,	, PNP	10...30 VDC	200 DC,	
	10 bar <i>uprox</i> <sup>®</sup> +	15,	, PNP	10...30 VDC	200 DC,	
	wash down   10 bar <i>uprox</i> <sup>®</sup> +	15,	, PNP	10...30 VDC	200 DC,	
	wash down <i>uprox</i> <sup>®</sup> +	15,	, PNP	10...30 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup> +	15,	, PNP	10...55 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup> +	15,	, PNP	10...55 VDC	200 DC,	
	10 bar <i>uprox</i> <sup>®</sup> +	15,	, PNP	10...55 VDC	200 DC,	
	wash down <i>uprox</i> <sup>®</sup> +	15,	, NPN	10...30 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup> +	15,	, NPN	10...30 VDC	200 DC,	
	PTFE <i>uprox</i> <sup>®</sup> +	15,	, NPN	10...30 VDC	200 DC,	
	10 bar <i>uprox</i> <sup>®</sup> +	15,	, NPN	10...30 VDC	200 DC,	
	wash down   10 bar <i>uprox</i> <sup>®</sup> +	15,	, NPN	10...30 VDC	200 DC,	
	wash down <i>uprox</i> <sup>®</sup> +	15,	, NPN	10...55 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup>	10,	, PNP	10...30 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup>	10,	, PNP	10...30 VDC	200 DC,	
	PTFE <i>uprox</i> <sup>®</sup>	10,	, PNP	10...30 VDC	200 DC,	
	<i>uprox</i> <sup>®</sup>	10,	, PNP	10...65 VDC	200 DC,	
<i>uprox</i> <sup>®</sup>	10,	, NPN	10...30 VDC	200 DC,		
<i>uprox</i> <sup>®</sup>	10,	, NPN	10...30 VDC	200 DC,		
PTFE <i>uprox</i> <sup>®</sup>	10,	, NPN	10...30 VDC	200 DC,		
<i>uprox</i> <sup>®</sup>	10,	, NPN	10...65 VDC	200 DC,		

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>BI15U-M30-AP6X-H1141</b>	1636732 ✘	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI15U-MT30-AP6X-H1141</b>	1636734 ✘	S002	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>BI15U-EM30WD-AP6X-H1141</b>	1634820 ✘	S002	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AP6X-H1141/ 3GD</b>	1634855 ✘	S002	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-M30-RP6X-H1141</b>	1636739 ✘	S056	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI15U-M30-VP44X-H1141</b>	1634885 ✘	S008	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI15U-EM30WD-VP44X-H1141</b>	1634899	S008	0.75	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-M30-AN6X-H1141</b>	1636736 ✘	S005	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI15U-MT30-AN6X-H1141</b>	1636738	S005	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>BI15U-EM30WD-AN6X-H1141</b>	1634834	S005	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AN6X-H1141/ 3GD</b>	1634856	S005	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-M30-VN44X-H1141</b>	1634889 ✘	S011	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>BI10U-M30-AP6X-H1141</b>	1636140 ✘	S002	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI10U-EM30-AP6X-H1141</b>	1636340 ✘	S002	2	-30...+85	IP68	VA	PBT	-	-	•
<b>BI10U-MT30-AP6X-H1141</b>	1636240 ✘	S002	1	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>BI10U-M30-VP4X-H1141</b>	1582253 ✘	S008	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI10U-M30-AN6X-H1141</b>	1636150 ✘	S005	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>BI10U-EM30-AN6X-H1141</b>	1636350 ✘	S005	2	-30...+85	IP68	VA	PBT	-	-	•
<b>BI10U-MT30-AN6X-H1141</b>	1636250	S005	1	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>BI10U-M30-VN4X-H1141</b>	1582352	S011	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•

✘ = 优选型号

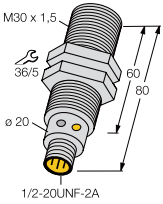



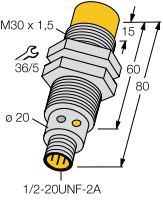



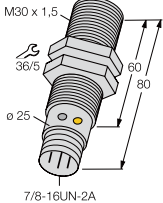



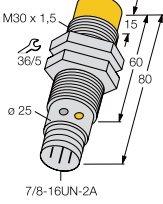



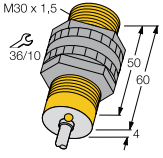









# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]		
	<b>M30 x 1,5</b> 	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)	
	<b>M30 x 1,5</b> 	<i>uprox</i> <sup>®</sup> +	30, 	—, PNP	10...30 VDC	200 DC, (K)	
		teflon	30, 	—, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup> +	$\text{Ex}$ II 3 D 10 bar wash down	30, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +		30, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	30, 	—, PNP	10...55 VDC	200 DC, (K)	
		10 bar <i>uprox</i> <sup>®</sup> +	30, 	—, PNP	10...55 VDC	200 DC, (K)	
		wash down	$\text{Ex}$ II 3 D 10 bar wash down	30, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +		30, 	—, NPN	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup> +	30, 	—, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup> +	30, 	—, NPN	10...55 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)	
		teflon <i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...65 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)	
		PTFE <i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)	
		<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...65 VDC	200 DC, (K)	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI10U-S30-AP6X-H1141</b>	1636600 ✕	S002	2	-30...+85	IP68	PBT	PA	-	-	•
<b>BI10U-S30-AN6X-H1141</b>	1636620	S005	2	-30...+85	IP68	PBT	PA	-	-	•
<b>NI20U-S30-AP6X-H1141</b>	1646600 ✕	S002	1.5	-30...+85	IP68	PBT	PA	-	-	•
<b>NI20U-S30-AN6X-H1141</b>	1646620	S005	1.5	-30...+85	IP68	PBT	PA	-	-	•
<b>NI30U-M30-AP6X-H1141</b>	1646631 ✕	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>NI30U-MT30-AP6X-H1141</b>	1646633 ✕	S002	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>NI30U-EM30WD-AP6X-H1141/3D</b>	1634861 ✕	S002	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-M30-RP6X-H1141</b>	1646636 ✕	S056	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>NI30U-M30-VP44X-H1141</b>	1634887 ✕	S008	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>NI30U-EM30WD-VP44X-H1141</b>	1634904	S008	0.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-M30-AN6X-H1141</b>	1644635 ✕	S005	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>NI30U-MT30-AN6X-H1141</b>	1644637	S005	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
<b>NI30U-EM30WD-AN6X-H1141/3D</b>	1634862	S005	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-M30-VN44X-H1141</b>	1634891 ✕	S011	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
<b>NI20U-M30-AP6X-H1141</b>	1646140 ✕	S002	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>NI20U-EM30-AP6X-H1141</b>	1646340 ✕	S002	1.5	-30...+85	IP68	VA	PBT	-	-	•
<b>NI20U-MT30-AP6X-H1141</b>	1646240 ✕	S002	1	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>NI20U-M30-VP4X-H1141</b>	1582457 ✕	S008	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>NI20U-M30-AN6X-H1141</b>	1646150 ✕	S005	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
<b>NI20U-MT30-AN6X-H1141</b>	1646250	S005	1	-30...+85	IP67	CuZn-T	PBT	-	-	•
<b>NI20U-EM30-AN6X-H1141</b>	1646350	S005	1.5	-30...+85	IP68	VA	PBT	-	-	•
<b>NI20U-M30-VN4X-H1141</b>	1582552	S011	1	-30...+85	IP67	CuZn-Cr	PBT	-	-	•

✕ = 优选型号

# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

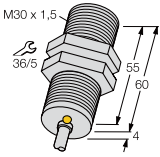












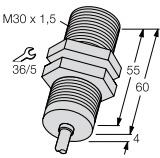






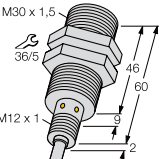




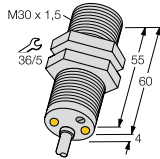




尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
 <p>M30 x 1,5 36/5 60 80 ø 20 1/2-20UNF-2A</p>	<p><b>M30 x 1,5</b></p> 	<p><i>uprox</i><sup>®</sup></p> <p>10, </p>		<p>20...250 VAC 10...300 VDC</p>	<p>400 AC 300 DC, (K)</p>	
 <p>M30 x 1,5 36/5 15 60 80 ø 20 1/2-20UNF-2A</p>	<p><b>M30 x 1,5</b></p> 	<p><i>uprox</i><sup>®</sup></p> <p>20, </p>		<p>20...250 VAC 10...300 VDC</p>	<p>400 AC 300 DC, (K)</p>	
 <p>M30 x 1,5 36/5 60 80 ø 25 7/8-16UN-2A</p>	<p><b>M30 x 1,5</b></p> 	<p><i>uprox</i><sup>®</sup></p> <p>10, </p>		<p>20...250 VAC 10...300 VDC</p>	<p>400 AC 300 DC, (K)</p>	
 <p>M30 x 1,5 36/5 15 60 80 ø 25 7/8-16UN-2A</p>	<p><b>M30 x 1,5</b></p> 	<p><i>uprox</i><sup>®</sup></p> <p>20, </p>		<p>20...250 VAC 10...300 VDC</p>	<p>400 AC 300 DC, (K)</p>	
 <p>M30 x 1,5 36/10 50 60 4</p>		<p><i>uprox</i><sup>®</sup></p> <p>10, </p> <p><i>uprox</i><sup>®</sup></p> <p>10, </p> <p><i>uprox</i><sup>®</sup></p> <p>20, </p> <p><i>uprox</i><sup>®</sup></p> <p>20, </p>	<p> , PNP</p> <p> , NPN</p> <p> , PNP</p> <p> , NPN</p>	<p>10...30 VDC</p> <p>10...30 VDC</p> <p>10...30 VDC</p> <p>10...30 VDC</p>	<p>200 DC, (K)</p> <p>200 DC, (K)</p> <p>200 DC, (K)</p> <p>200 DC, (K)</p>	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI10U-G30-ADZ30X2-B3131</b>	4281613	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>NI20U-G30-ADZ30X2-B3131</b>	4281813	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>BI10U-G30-ADZ30X2-B1131</b>	4281612	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>NI20U-G30-ADZ30X2-B1131</b>	4281812	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
<b>BI10U-S30-AP6X</b>	1636500 ✕	S001	2	-30...+85	IP68	PA	PA	PVC 2 m	-	•
<b>BI10U-S30-AN6X</b>	1636520	S004	2	-30...+85	IP68	PA	PA	PVC 2 m	-	•
<b>NI20U-S30-AP6X</b>	1646500 ✕	S001	1.5	-30...+85	IP68	PA	PA	PVC 2 m	-	•
<b>NI20U-S30-AN6X</b>	1646520	S004	1.5	-30...+85	IP68	PA	PA	PVC 2 m	-	•

✕ = 优选型号

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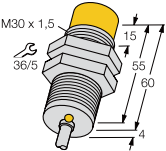














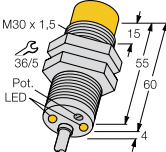


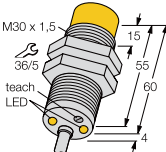


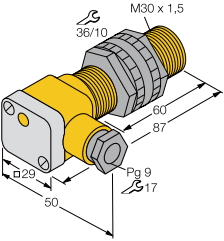





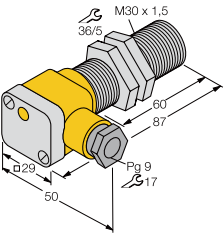








# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
	<b>M30 x 1,5</b>					
	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...55 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...55 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...30 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...30 VDC	200 DC, 	
	<b>M30 x 1,5</b>					
	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...30 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...65 VDC	200 DC, 	
	<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...30 VDC	200 DC, 	
	<b>M30 x 1,5</b>					
	10 bar <i>uprox</i> <sup>®</sup> +	15, 	—, PNP	10...30 VDC	200 DC, 	
	wash down					
10 bar <i>uprox</i> <sup>®</sup> +	15, 	—, NPN	10...30 VDC	200 DC, 		
	wash down					
	<b>M30 x 1,5</b>					
	转速监控	10, 	—, PNP	10...65 VDC	200 DC, 	
	转速监控	10, 	—, PNP	10...65 VDC	200 DC, 	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED └┘
<b>BI15U-M30-AP6X</b>	1636731 ✕	S001	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI15U-M30-VP44X</b>	1634884 ✕	S007	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI15U-M30-AN6X</b>	1636735	S004	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI15U-M30-VN44X</b>	1634888	S010	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>BI10U-EM30-AP6X</b>	1636300 ✕	S001	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>BI10U-EM30-AN6X</b>	1636320 ✕	S004	2	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>BI10U-M30-ADZ30X2</b>	4282610 ✕	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>BI10U-M30-AP6X</b>	1636100 ✕	S001	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI10U-M30-VP4X</b>	1582201 ✕	S007	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI10U-M30-AN6X</b>	1636120 ✕	S004	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI10U-M30-VN4X</b>	1582303	S010	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>BI15U-EM30WD-AP6X</b>	1634819 ✕	S001	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI15U-EM30WD-AN6X</b>	1634843	S004	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>DBI10U-M30-AP4X2</b>	1582231 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTBI10U-M30-AP4X2</b>	1582230 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•

✕ = 优选型号

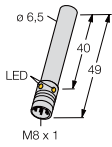




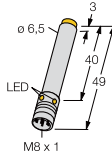




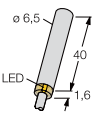



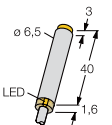



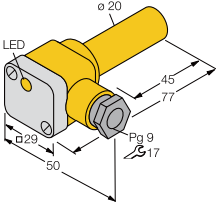



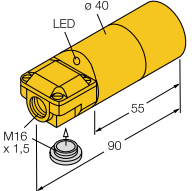



# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]		
		<b>M30 x 1,5</b>	<i>uprox</i> <sup>®</sup> +	30, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup> +	30, 	—, PNP	10...55 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup> +	30, 	—, NPN	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup> +	30, 	—, NPN	10...55 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...65 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...65 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...65 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...65 VDC	200 DC, (K)
<i>uprox</i> <sup>®</sup>	20, 	—, PNP	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)			
		<b>M30 x 1,5</b>	转速监控	20, 	—, PNP	10...65 VDC	200 DC, (K)
		<b>M30 x 1,5</b>	转速监控	20, 	—, PNP	10...65 VDC	200 DC, (K)
		<b>M30 x 1,5</b>	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)
		<b>M30 x 1,5</b>	<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	10, 	—, PNP	10...65 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	10, 	—, NPN	10...65 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...30 VDC	200 DC, (K)
			<i>uprox</i> <sup>®</sup>	20, 	—, PNP	10...65 VDC	200 DC, (K)
<i>uprox</i> <sup>®</sup>	20, 	—, NPN	10...30 VDC	200 DC, (K)			

型号	订货号	连接方式 (IEC 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (IEC 334)	感应面 (IEC 334)	导线 (IEC 334)	LED U <sub>B</sub>	LED ┌
<b>NI30U-M30-AP6X</b>	1646630 ✕	S001	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI30U-M30-VP44X</b>	1634886 ✕	S007	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI30U-M30-AN6X</b>	1644634	S004	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI30U-M30-VN44X</b>	1634890	S010	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
<b>NI20U-M30-AP6X</b>	1646100 ✕	S001	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI20U-EM30-AP6X</b>	1646300 ✕	S001	1.5	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI20U-M30-VP4X</b>	1582401 ✕	S007	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI20U-EM30-VP4X</b>	1582462	S007	1.5	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI20U-M30-AN6X</b>	1646120 ✕	S004	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI20U-EM30-AN6X</b>	1646320	S004	1.5	-30...+85	IP68	VA	PBT	PVC 2 m	-	•
<b>NI20U-M30-VN4X</b>	1582501	S010	1	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
<b>NI20U-M30-ADZ30X2</b>	4282810 ✕	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DNI20U-M30-AP4X2</b>	1582233 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTNI20U-M30-AP4X2</b>	1582232 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>BI10U-P30SK-AP6X</b>	1636700 ✕	S003	2	-30...+85	IP68	PA	PA	-	-	•
<b>BI10U-P30SK-AN6X</b>	1636720	S006	2	-30...+85	IP68	PA	PA	-	-	•
<b>NI20U-P30SK-AP6X</b>	1646700 ✕	S003	1.5	-30...+85	IP68	PA	PA	-	-	•
<b>NI20U-P30SK-AN6X</b>	1646720	S006	1.5	-30...+85	IP68	PA	PA	-	-	•
<b>BI10U-EG30SK-AP6X</b>	1636400 ✕	S003	2	-30...+85	IP68	VA	LCP	-	-	•
<b>BI10U-EG30SK-VP4X</b>	1582601 ✕	S009	2	-30...+85	IP68	VA	LCP	-	-	•
<b>BI10U-EG30SK-AN6X</b>	1636420	S006	2	-30...+85	IP68	VA	LCP	-	-	•
<b>BI10U-EG30SK-VN4X</b>	1582701	S012	2	-30...+85	IP68	VA	LCP	-	-	•
<b>NI20U-EG30SK-AP6X</b>	1646400 ✕	S003	1.5	-30...+85	IP68	VA	PBT	-	-	•
<b>NI20U-EG30SK-VP4X</b>	1582801 ✕	S009	1.5	-30...+85	IP68	VA	PBT	-	-	•
<b>NI20U-EG30SK-AN6X</b>	1646420	S006	1.5	-30...+85	IP68	VA	PBT	-	-	•

✕ = 优选型号

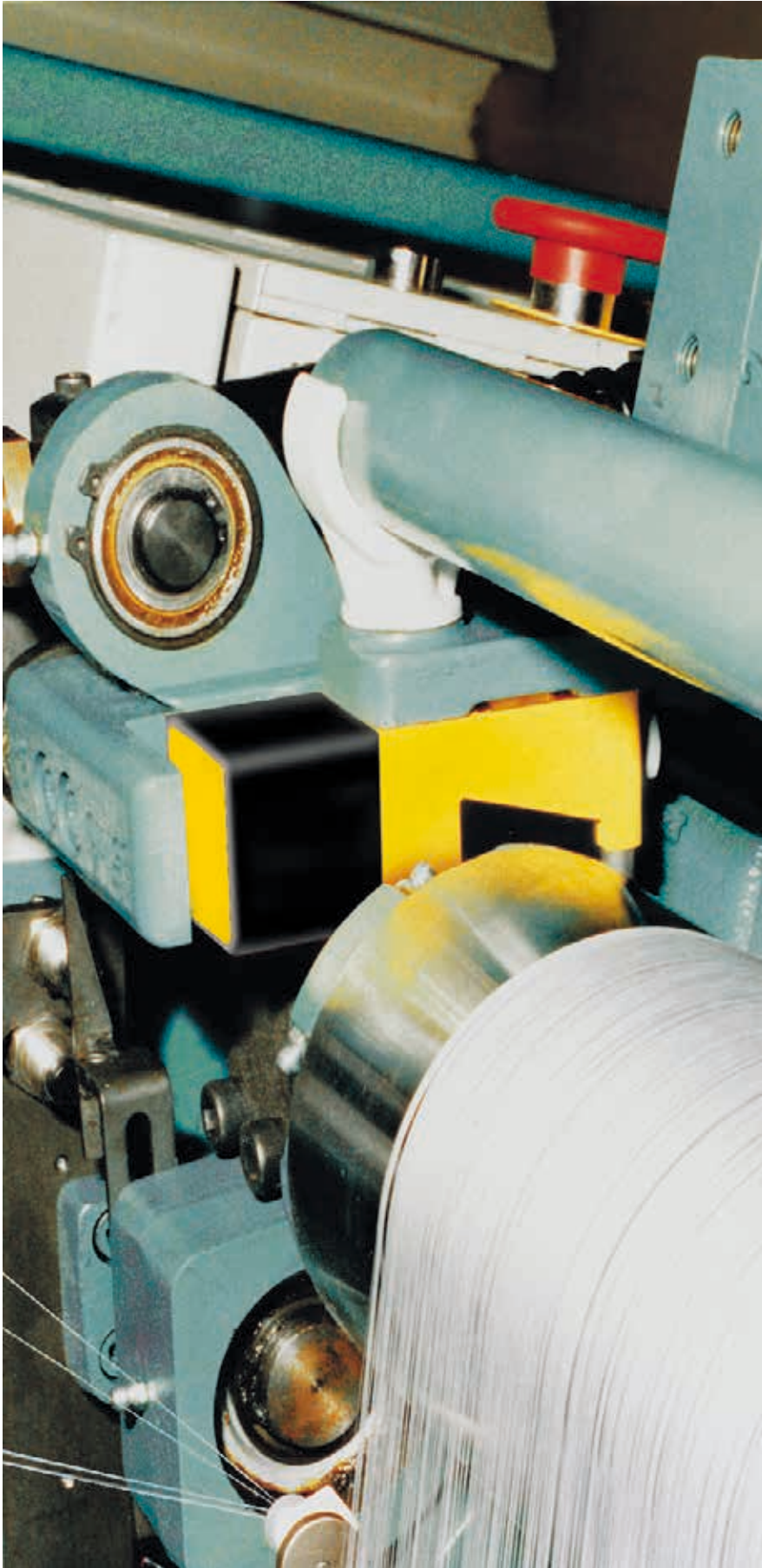
# FACTOR1 *uprox*<sup>®</sup> / *uprox*<sup>®</sup>+

尺寸/外形	特性	额定工作 距离S <sub>n</sub> [mm]	输出	工作电压	额定工作 电流I <sub>e</sub> [mA]	
 <p>Ø6,5 LED M8 x 1</p>		<i>uprox</i> <sup>®</sup> +	2, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	2, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	2, 	—, NPN	10...30 VDC	150 DC, (K)
 <p>Ø6,5 LED M8 x 1</p>		<i>uprox</i> <sup>®</sup> +	6, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	6, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	6, 	—, NPN	10...30 VDC	150 DC, (K)
 <p>Ø6,5 LED</p>		<i>uprox</i> <sup>®</sup> +	2, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	2, 	—, NPN	10...30 VDC	150 DC, (K)
 <p>Ø6,5 LED</p>		<i>uprox</i> <sup>®</sup> +	6, 	—, PNP	10...30 VDC	150 DC, (K)
		<i>uprox</i> <sup>®</sup> +	6, 	—, NPN	10...30 VDC	150 DC, (K)
 <p>LED Ø20 45 77 Ø29 50 Pg 9 17</p> <p>安装附件BS20</p>		<i>uprox</i> <sup>®</sup>	5, 	—, PNP	10...30 VDC	200 DC, (K)
		<i>uprox</i> <sup>®</sup>	5, 	—, NPN	10...30 VDC	200 DC, (K)
 <p>LED Ø40 55 90 M16 x 1.5</p> <p>安装附件BS40</p>		转速监控	15, 	—, PNP	10...65 VDC	200 DC, (K)
		转速监控	30, 	—, PNP	10...65 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI2U-EH6,5-AP6X-V1131</b>	4281160 ✕	S002	2	-30...+85	IP68	VA	PA	-	-	•
<b>BI2U-EH6,5-RP6X-V1131</b>	1637151	S175	2	-30...+85	IP68	VA	PA	-	-	•
<b>BI2U-EH6,5-AN6X-V1131</b>	4281180	S005	2	-30...+85	IP68	VA	PA	-	-	•
<b>NI6U-EH6,5-AP6X-V1131</b>	4631510 ✕	S002	1	-25...+70	IP68	VA	PA	-	-	•
<b>NI6U-EH6,5-RP6X-V1131</b>	4635832	S175	1	-25...+70	IP68	VA	PA	-	-	•
<b>NI6U-EH6,5-AN6X-V1131</b>	4631530	S005	1	-25...+70	IP68	VA	PA	-	-	•
<b>BI2U-EH6,5-AP6X</b>	4281150 ✕	S001	2	-30...+85	IP68	VA	PA	PUR 2 m	-	•
<b>BI2U-EH6,5-AN6X</b>	4281170 ✕	S004	2	-30...+85	IP68	VA	PA	PUR 2 m	-	•
<b>NI6U-EH6,5-AP6X</b>	4631500 ✕	S001	1	-25...+70	IP68	VA	PA	PUR 2 m	-	•
<b>NI6U-EH6,5-AN6X</b>	4631520	S004	1	-25...+70	IP68	VA	PA	PUR 2 m	-	•
<b>BI5U-K20SK-AP6X</b>	1635130 ✕	S003	1	-30...+85	IP68	PBT	PBT	-	-	•
<b>BI5U-K20SK-AN6X</b>	1635131	S006	1	-30...+85	IP68	PBT	PBT	-	-	•
<b>DBI15U-K40SR-AP4X2</b>	1500201	S058	-	-30...+85	IP67	ABS	ABS	-	•	•
<b>DNI30U-K40SR-AP4X2</b>	1500202	S058	-	-30...+85	IP67	ABS	ABS	-	•	•

✕ = 优选型号

## 模拟量输出型电感式传感器



模拟量输出的电感式传感器适用于简单的测量和控制系统。它可以提供一个与被测物距离成比例的电压或电流信号。在整个测量范围内，此信号与被测物和传感器感应面之间的距离成线性关系。

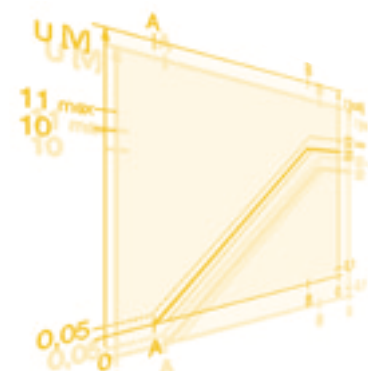
TURCK的模拟量输出型电感式传感器主要应用于需要多点或连续位置控制的系统中。

典型应用包括

- 张力控制
- 绕线/放线过程控制
- 不同尺寸或材质的工具区分
- 厚度、间隙或位移测量
- 轮偏心测量
- 轮宽测量
- 定位
- 定为控制
- 绝对位置或角度偏差控制

为了完善模拟量输出型电感式传感器的范围，模拟量输出型电感式传感器中增加了analog+系列。此系列传感器的测量范围被再次扩大，因而特别用于检测距离较大而又需要模拟量信号输出的场合。

若要检测较小的运动或偏转，标准模拟量输出型传感器则更为适合，由于其较低的测量上限范围值，它们的线性度和重复精度会更加优越。



- 高重复精度( $R \leq 1\%$ )
- 大测量范围
- 电流、电压和频率输出
- 选择性：可选开关量输出
- 外形丰富
- 优秀的EMC特性
- 短路保护和反极性保护
- 多种连接方式

## 传感器驱动—性能和应用

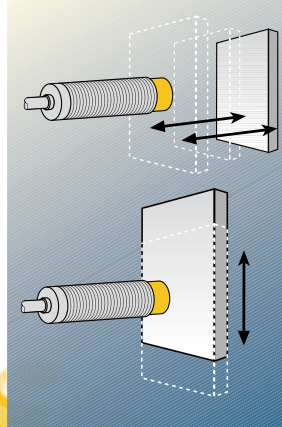
对于机械工程领域的位置测量的一个简单的解决方法就是使用Wi系列的电感式模拟量输出传感器。该传感器包括40mm和70mm两种量程，通过非铁磁金属制造的磁环来进行检测。为提高客户的安装自由度，传感器上有一个沟槽用于固定磁块。

此种模拟量输出传感器能有效的进行位置检测，故可将其与浮子配合应用于流量和液位的检测。

## 金属的检测

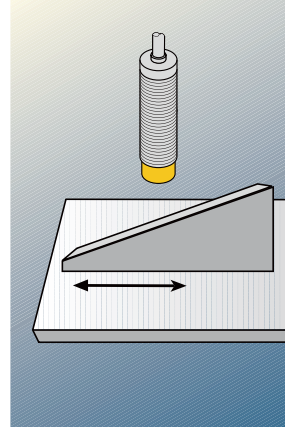
在很多领域都需要检测不同金属的传感器，最典型的应用为区分铝制饮料罐和铁镀锡饮料罐或检测在设备中的不同材质的管状金属部件。

鉴于此，TURCK开发的新型模拟量输出型电感式传感器不仅能检测信号的振幅还能进一步检测信号的相位，所有的模拟量信号均经控制终端数字化解。这种模拟量输出型传感器是根据金属的衰减系数不同来测量的。



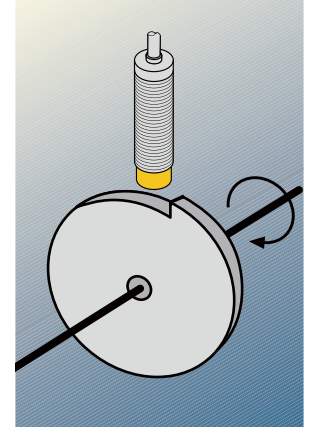
### 线性运动测量

若模拟量输出型电感式传感器对目标直接测量，包括径向和轴向，都可以达到最高重复精度。



### 斜面运动测量

当检测大范围的线性运动并需把它转换成模拟量信号时，这个大的检测距离可在传感器检测范围内通过重复检测一个斜面来完成。

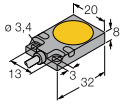


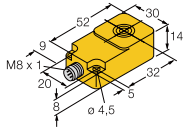


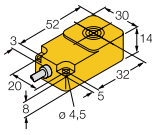


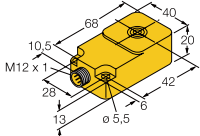


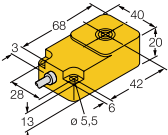


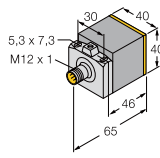








### 蜗杆运动测量

旋转运动通过蜗杆装置可被测量，因此模拟量输出型电感式传感器可将整个旋转运动的角位置赋予一个模拟量测量值



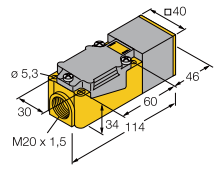



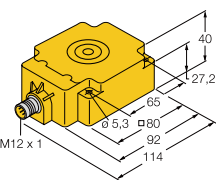


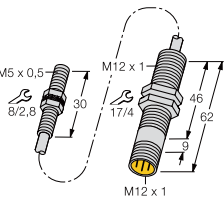


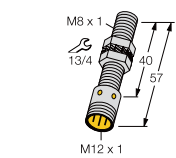


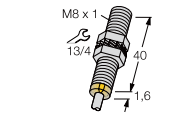


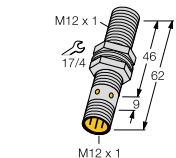



# 模拟量输出型电感式传感器

尺寸/外形	特性	测量范围 [mm]	测量长度 [mm]	输出1 (PIN2, WH)	输出2 (PIN4, BK)	线性误差 [%]	工作电压 $U_B$	
	<b>Q08</b> 	1...4, 	3	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
	<b>Q14</b> 	3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
	<b>Q14</b> 	3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
	<b>Q20</b> 	4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
	<b>Q20</b> 	4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
	<b>CK40</b> 	4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
		5...25, 	20	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
		5...25, 	20	I = 4...20 mA	U = 2...10 V	3	15...30 VDC	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI7-Q08-LIU</b>	1534605 ✕	S033	200	-10...+70	IP67	GD-Zn	PA	PUR 2 m	-	-
<b>BI10-Q14-LIU-V1141</b>	1534603 ✕	S034	140	-25...+70	IP67	PBT	PBT	-	-	-
<b>BI10-Q14-LIU</b>	1534602	S033	140	-10...+70	IP67	PBT	PBT	PUR 2 m	-	-
<b>BI15-Q20-LIU-H1141</b>	1534601 ✕	S034	110	-10...+70	IP67	PBT	PBT	-	-	-
<b>BI15-Q20-LIU</b>	1534600	S033	110	-10...+70	IP67	PBT	PBT	PUR 2 m	-	-
<b>BI15-CK40-LIU-H1141</b>	1537800 ✕	S034	110	-10...+70	IP67	PBT	PA	-	-	-
<b>NI25-CK40-LIU-H1141</b>	1537802 ✕	S034	30	-10...+70	IP67	PBT	PA	-	-	-
<b>NI25-CK40-LIU2-H1141</b>	1537821 ✕	S034	30	-10...+70	IP67	PBT	PA	-	-	-

✕ = 优选型号

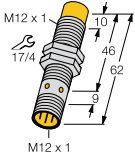


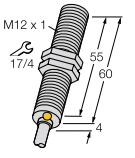


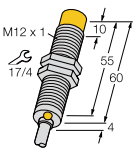


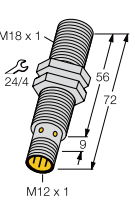


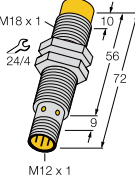








# 模拟量输出型电感式传感器

尺寸/外形	特性	测量范围 [mm]	测量长度 [mm]	输出1 (PIN2, WH)	输出2 (PIN4, BK)	线性误差 [%]	工作电压 $U_B$	
	<b>CP40</b> 	analog	4...11, 	7	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC
	analog+	5...25, 	20	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>Q80</b> 	analog+	10...50, 	40	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC
	<b>M5 x 0,5</b> 	analog+	0.1...1.5, 	1.4	$I =$ 0...20 mA	$U =$ 0...10 V	nicht linear	15...30 VDC
	<b>M8 x 1</b> 	analog	0.25...1.25, 	1	–	$U =$ 0...10 V	3	15...30 VDC
	<b>M8 x 1</b> 	analog	0.25...1.25, 	1	–	$U =$ 0...10 V	3	15...30 VDC
	<b>M12 x 1</b> 	analog	1...2.5, 	1.5	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC
	analog+	0.5...3, 	2.5	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI15-CP40-LIU</b>	15356 ✕	S035	110	-10...+70	IP67	PBT	PBT	-	-	-
<b>NI25-CP40-LIU</b>	1535544 ✕	S035	30	-10...+70	IP67	PBT	PBT	-	-	-
<b>NI50-Q80-LIU-H1141</b>	1535545 ✕	S034	30	-10...+70	IP67	PBT	PBT	-	-	-
<b>BI1,5-EG05-0,3-M12-SIU-H1141</b>	1533005 ✕	S034	200	-10...+70	IP67	VA	PA	PVC 0.3 m	-	-
<b>BI1,5-EG08-LU-H1341</b>	1533004 ✕	S098	200	-10...+70	IP67	VA	PA	-	-	-
<b>BI1,5-EG08-LU</b>	1533003 ✕	S091	200	-10...+70	IP67	VA	PA	PUR 2 m	-	-
<b>BI2-M12-LIU-H1141</b>	1535533	S034	200	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>BI4-M12-LIU-H1141</b>	1535531 ✕	S034	200	-10...+70	IP67	CuZn-Cr	PA	-	-	-

✕ = 优选型号

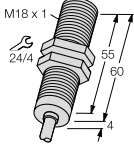





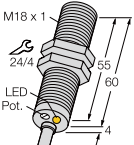


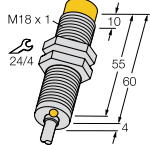


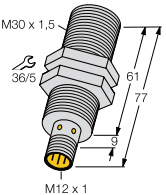


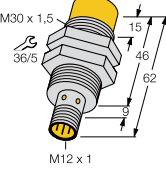

# 模拟量输出型电感式传感器

尺寸/外形	特性	测量范围	测量长度	输出1	输出2	线性误差	工作电压 $U_B$	
		[mm]	[mm]	(PIN2, WH)	(PIN4, BK)			
	<b>M12 x 1</b> 	analog 0.5...4, 	3.5	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>M12 x 1</b> 	analog 1...2.5 	1.5	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>M12 x 1</b> 	analog+ 0.5...3 	2.5	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC	
	<b>M18 x 1</b> 	analog 0.5...4, 	3.5	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>M18 x 1</b> 	analog+ 1...5, 	4	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC	
	<b>M18 x 1</b> 	analog 1...5, 	4	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>M18 x 1</b> 	analog+ 1...7, 	6	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC	

型号	订货号	连接方式 (☞ 322)	读取频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>NI5-M12-LIU-H1141</b>	1535535 ✕	S034	100	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>BI2-M12-LIU</b>	1535534 ✕	S033	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI4-M12-LIU</b>	1535532	S033	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>NI5-M12-LIU</b>	1535536	S033	100	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI5-M18E-LIU-H1141</b>	1536205 ✕	S034	200	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>BI8-M18E-LIU-H1141</b>	1535561 ✕	S034	200	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>NI8-M18E-LIU-H1141</b>	1536302 ✕	S034	100	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>NI10-M18E-LIU-H1141</b>	1535562 ✕	S034	100	-10...+70	IP67	CuZn-Cr	PA	-	-	-

✕ = 优选型号

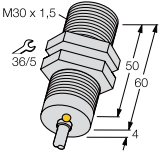




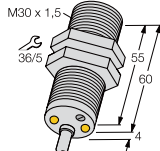

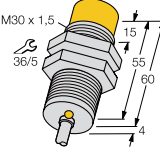

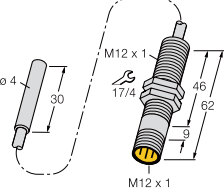

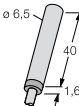

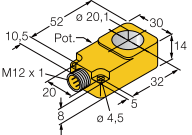
# 模拟量输出型电感式传感器

尺寸/外形	特性	测量范围 [mm]	测量长度 [mm]	输出1 (PIN2, WH)	输出2 (PIN4, BK)	线性误差 [%]	工作电压 $U_B$	
	<b>M18 x 1</b> □	analog 2...4, 	2	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
		analog+ 1...5, 	4	I = 0...20 mA	U = 0...10 V	5	15...30 VDC	
		 II 1 G analog+ 1...5, 	4	I = 4...20 mA	-	5	14...30 VDC	
		analog+ 1...5, 	4	-	1...10 kHz	5	15...30 VDC	
	<b>M18 x 1</b> □	analog+ 范围可调 1...5, 	4	 , PNP	U = 0...10 V	5	15...30 VDC	
	<b>M18 x 1</b> □	analog 1...5, 	4	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
		analog+ 1...7, 	6	I = 0...20 mA	U = 0...10 V	5	15...30 VDC	
	<b>M30 x 1,5</b> □ →	analog 3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	
		analog+ 2...10, 	8	I = 0...20 mA	U = 0...10 V	5	15...30 VDC	
	<b>M30 x 1,5</b> □ →	analog 2...12, 	10	I = 0...20 mA	U = 0...10 V	3	15...30 VDC	

型号	订货号	连接方式 (☞ 322)	读取频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI5-M18-LIU</b>	1536000 ✕	S033	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI8-M18-LIU</b>	1535538 ✕	S033	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI8-M18-LI-EXI</b>	1535528 ✕	S097	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI8-M18-LF10</b>	1535529 ✕	S089	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI8-M18-LUAP6X</b>	4615010 ✕	S090	200	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>NI8-M18-LIU</b>	1536100 ✕	S033	100	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>NI10-M18-LIU</b>	1535540 ✕	S033	100	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI10-M30E-LIU-H1141</b>	1537003 ✕	S034	140	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>BI15-M30E-LIU-H1141</b>	1535563 ✕	S034	140	-10...+70	IP67	CuZn-Cr	PA	-	-	-
<b>NI15-M30E-LIU-H1141</b>	1535564	S034	60	-10...+70	IP67	CuZn-Cr	PA	-	-	-

✕ = 优选型号

# 模拟量输出型电感式传感器

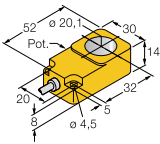

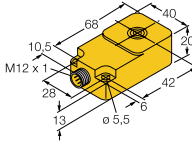


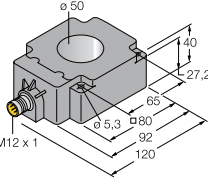

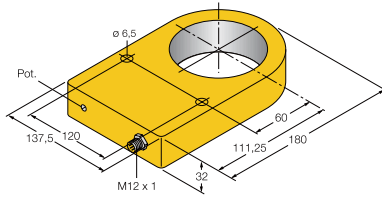

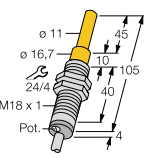


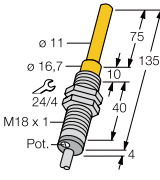


尺寸/外形	特性	测量范围 [mm]	测量长度 [mm]	输出1 (PIN2, WH)	输出2 (PIN4, BK)	线性误差 [%]	工作电压 $U_B$	
	<b>M30 x 1,5</b> □	analog 3...8, 	5	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
		analog+ 2...10, 	8	$I =$ 0...20 mA	$U =$ 0...10 V	5	15...30 VDC	
	 II 1 G analog+ 2...10, 	8	$I =$ 4...20 mA	-	5	14...30 VDC		
	<b>M30 x 1,5</b> □	analog+ 范围可调 2...10, 	8	$\sim$ , PNP	$U =$ 0...10 V	5	15...30 VDC	
	<b>M30 x 1,5</b> □	analog 2...12, 	10	$I =$ 0...20 mA	$U =$ 0...10 V	3	15...30 VDC	
	<b>Ø4</b> □ →	analog+ 0.1...1.5, 	1.4	$I =$ 0...20 mA	$U =$ 0...10 V		15...30 VDC	
	<b>Ø6,5</b> □	analog 0.25...1.25, 	1	-	$U =$ 0...10 V	3	15...30 VDC	
	<b>Q14</b> □ →	analog VA: 非铁磁金属 St37: 2...17mm 4...19mm 1...10mm	1) 1)	-	$U =$ 0...10 V	-	15...30 VDC	

1) 参见320页

型号	订货号	连接方式 (☞ 322)	读取频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>BI10-M30-LIU</b>	15355 ✕	S033	140	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI15-M30-LIU</b>	1535543	S033	140	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI15-M30-LI-EXI</b>	1535554 ✕	S097	140	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI15-M30-LUAP6X</b>	4618510 ✕	S090	140	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>NI15-M30-LIU</b>	1535300 ✕	S033	60	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>BI1,5-EH04-0,3-M12-SIU-H1141</b>	1533001 ✕	S034	200	-10...+70	IP67	VA	PA	PVC 0.3 m	-	-
<b>BI1,5-EH6,5-LU</b>	1533002	S091	200	-10...+70	IP67	VA	PA	PUR 2 m	-	-
<b>BI20R-Q14-LU-H1141</b>	1535548 ✕	S098	80	-10...+70	IP67	PBT	-	-	-	-


✕ = 优选型号

# 模拟量输出型电感式传感器

尺寸/外形	特性	测量范围 [mm]	测量长度 [mm]	输出1 (PIN2, WH)	输出2 (PIN4, BK)	线性误差 [%]	工作电压 $U_B$	
	<b>Q14</b> 	analog VA: 非铁磁金属 St37: 2...17mm 4...19mm 1...10mm	1)	1)	$U = 0...10\text{ V}$	-	15...30 VDC	
	<b>Q20</b> 	analog 区分金属 4...11, 	7	-	$U = 0...10\text{ V}$	3	15...30 VDC	
	<b>Q80</b> 	analog 区分金属 -	0	-	$U = 0...10\text{ V}$	3	15...30 VDC	
	<b>S32XL</b> 	analog 区分金属 -	0	-	$U = 0...10\text{ V}$	3	15...30 VDC	
	<b>M18 x 1</b> 	analog 0...40, 	40	$I = 4...20\text{ mA}$	$U = 0...10\text{ V}$	2	15...30 VDC	
	<b>M18 x 1</b> 	analog 0...70, 	70	$I = 4...20\text{ mA}$	$U = 0...10\text{ V}$	3	15...30 VDC	

详细参数见318

型号	订货号	连接方式 (☞ 322)	读取频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI20R-Q14-LU</b>	1535546 <b>x</b>	S091	80	-10...+70	IP67	PBT	-	PVC 2 m	-	-
<b>BI15-Q20-2LU-H1141/S950</b>	1534611 <b>x</b>	S177	110	-10...+70	IP67	PBT	PBT	-	-	-
<b>BI50R-Q80-2LU-H1141/S950</b>	1534609	S177	80	-10...+70	IP67	PBT	-	-	-	-
<b>NI100R-S32XL-2LU-H1141/S950</b>	1534610	S177	80	-10...+70	IP67	POM	-	-	-	-
<b>WI40-M18-LIU5</b>	1536603 <b>x</b>	S033	40	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
<b>WI70-M18-LIU5</b>	1536600 <b>x</b>	S033	40	-10...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-



电感性位置编码器：通过短路环或盲孔激励

**x** = 优选型号

3

# 模拟量输出型电感式传感器

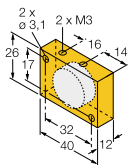
尺寸/外形	特性	测量范围	测量长度	输出1	输出2	线性误差	工作电压 $U_B$	
		[mm]	[mm]	(PIN2, WH)	(PIN4, BK)	[%]		
 <p><b>Q20L</b></p> 	analog	10...50, 	40	I = 4...20 mA	U = 0...10 V	2	15...30 VDC	
 <p><b>Q20L</b></p> 	analog	15...85, 	70	I = 4...20 mA	U = 0...10 V	8	15...30 VDC	

型号	订货号	连接方式 (IEC 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (IEC 334)	感应面 (IEC 334)	导线 (IEC 334)	LED U <sub>B</sub>	LED ┌
<b>WIM40-Q20L60-LIU5-H1141</b>	1539280 <b>x</b>	S034	1000	-25...+70	IP67	PBT	PBT	-	-	-
<b>WIM70-Q20L100-LIU5-H1141</b>	1539276 <b>x</b>	S034	1000	-25...+70	IP67	PBT	PBT	-	-	-

3

附件

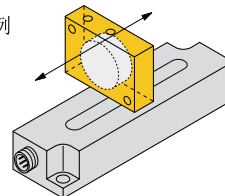
**DM-Q12**



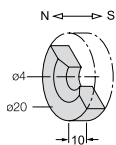
6900367

定位磁块：  
通过永久磁块激励

安装示例



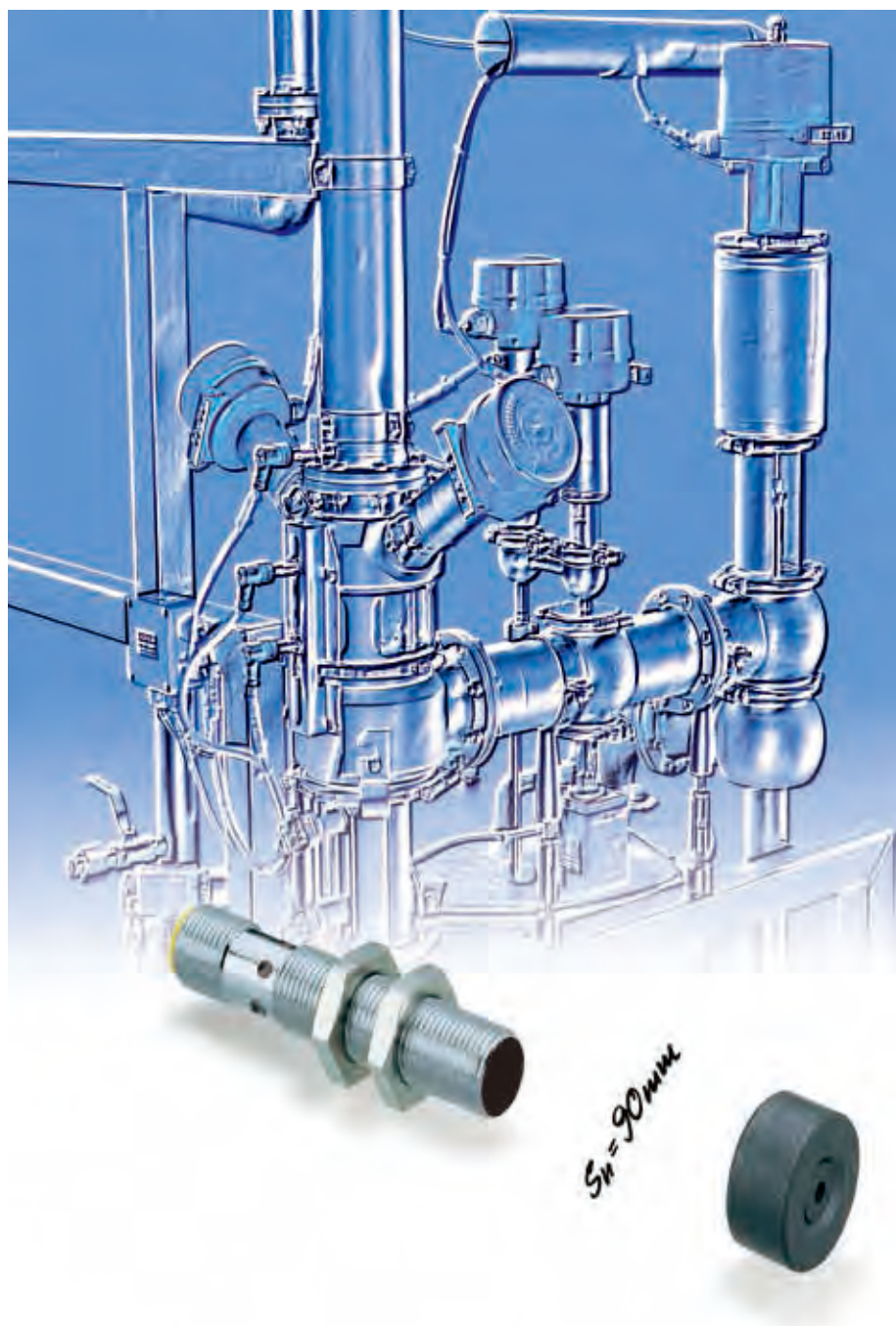
**DM20-30-4**



6900214

**x** = 优选型号

## 磁感应式传感器



### 磁感应式传感器

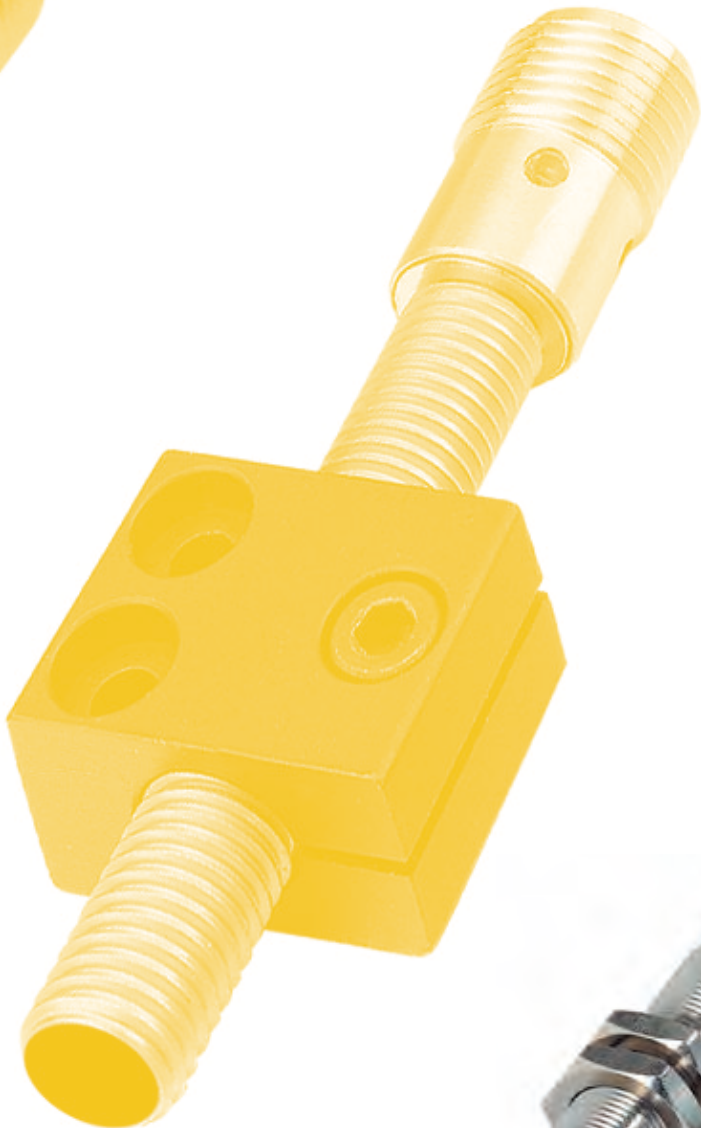
磁感应传感器被磁场激发，因而能够透过非磁性物质（如木材、塑料、非铁磁金属、铝、不锈钢）检测永久磁体。

尽管与电感式传感器具有相似的外形，但磁感应开关检测范围更大。大的检测范围使许多应用成为可能，尤其是在安装空间受到限制或存在其他困难的检测条件下，例如像机库门那样不具有充分定位控制的导向门以及管道清洁等，经常用具有完全磁性和感应磁块完成。它能和磁感应开关配合可靠地进行检测。

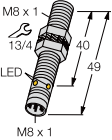

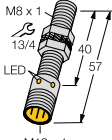



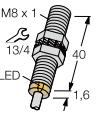



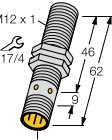




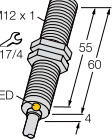


已取得认证的permaprox®系列产品能被用作传感器，与各种不同尺寸和磁力的磁块配合使用。

TURCK的M12磁感应传感器与磁块DMR 31-15-5配合使用时，开关距离可达90mm；其他磁块标定的开关距离可达36mm和59mm。当然，也可以检测各种永磁体，如管道系统中的“磁块”。

- 外形M8和M12
- 大开关距离，可达90mm
- 用于防爆危险区域
- 优秀的EMC特性
- 多种连接方式（导线、插接件、接线端子）



# 磁感应式传感器

尺寸/外形	特性	额定工作距离Sn max. [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>M8 x 1</b> 	-	78	 , PNP	10...30 VDC	150 DC, (K)
	<b>M8 x 1</b> 	⊕ II 2 G SIL2	78	NAMUR	nom. 8.2 VDC	-
		-	78	 , PNP	10...30 VDC	150 DC, (K)
		-	78	 , NPN	10...30 VDC	150 DC, (K)
	<b>M8 x 1</b> 	⊕ II 2 G SIL2	78	NAMUR	nom. 8.2 VDC	-
		-	78	 , PNP	10...30 VDC	150 DC, (K)
		-	78	 , NPN	10...30 VDC	150 DC, (K)
	<b>M12 x 1</b> 	⊕ II 2 G SIL2	90	NAMUR	nom. 8.2 VDC	-
		-	90	 , PNP	10...65 VDC	200 DC, (K)
		-	90	 , NPN	10...65 VDC	200 DC, (K)
		-	90	 , 2-wire	10...65 VDC	200 DC, (K)
	<b>M12 x 1</b> 	⊕ II 1 G ⊕ II 1 D SIL2	90	NAMUR	nom. 8.2 VDC	-
		-	90	 , PNP	10...65 VDC	200 DC, (K)
		-	90	 , NPN	10...65 VDC	200 DC, (K)

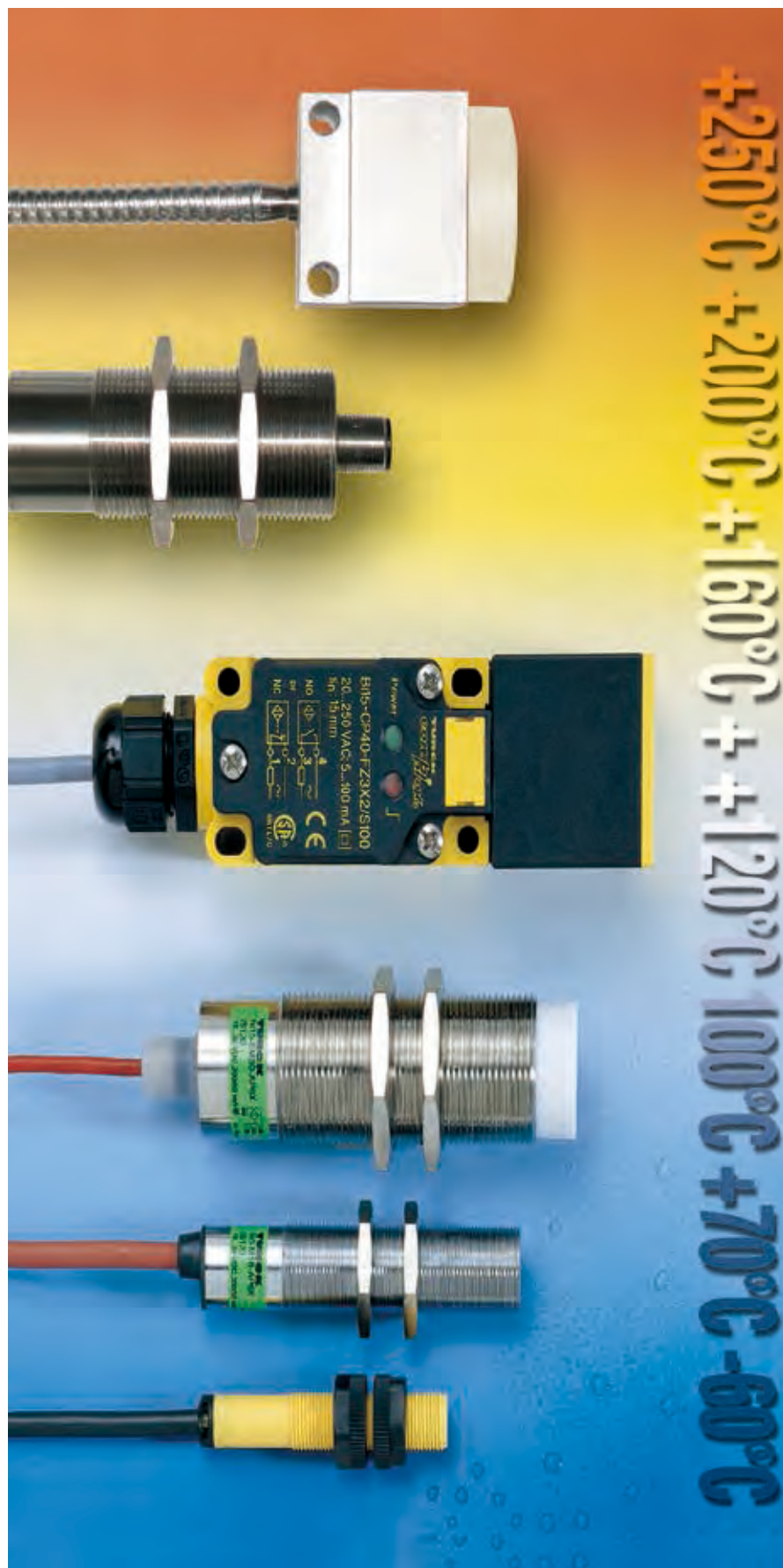
1) Sn取决于激励磁块的磁场强度/标定距离指与激励磁块DMR31-15-5配合使用时的额定工作距离

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED └┘
<b>BIM-EG08-AP6X-V1131</b>	4621314 ✕	S002	1	-25...+70	IP67	VA	PA	-	-	•
<b>BIM-EG08-Y1X-H1341</b>	1074001 ✕	S026	1	-25...+70	IP67	VA	PA	-	-	•
<b>BIM-EG08-AP6X-H1341</b>	4621311 ✕	S002	1	-25...+70	IP67	VA	PA	-	-	•
<b>BIM-EG08-AN6X-H1341</b>	4621301	S005	1	-25...+70	IP67	VA	PA	-	-	•
<b>BIM-EG08-Y1X</b>	1074000 ✕	S025	1	-25...+70	IP67	VA	PA	PVC 2 m	-	•
<b>BIM-EG08-AP6X</b>	4621310 ✕	S001	1	-25...+70	IP67	VA	PA	PUR 2 m	-	•
<b>BIM-EG08-AN6X</b>	4621300	S004	1	-25...+70	IP67	VA	PA	PUR 2 m	-	•
<b>BIM-M12E-Y1X-H1141</b>	1074003 ✕	S026	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
<b>BIM-EM12E-AP4X-H1141</b>	1579915	S002	1	-25...+70	IP67	VA	POM	-	-	•
<b>BIM-M12E-AN4X-H1141</b>	1579914	S005	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
<b>BIM-M12E-AG4X-H1144</b>	1579910 ✕	S110	0.3	-25...+70	IP67	CuZn-Cr	PA	-	-	•
<b>BIM-EM12E-Y1X</b>	1070036	S025	1	-25...+70	IP67	VA	POM	PUR 2 m	-	•
<b>BIM-EM12E-AP4X</b>	1579918	S001	1	-25...+70	IP67	VA	POM	PVC 2 m	-	•
<b>BIM-M12E-AN4X</b>	1579912	S004	1	-25...+70	IP67	CuZn-Cr	PA	PUR 2 m	-	•

3

✕ = 优选型号

## 温度扩展型电感式传感器



### 耐低温至-60℃型

TURCK提供一种特殊的电感式传感器可应用于低温环境。为了容易识别，这种型号的传感器的标志代码为“S97”。它们的温度范围为-40℃~+70℃。另有种标志代码为“S929”系列的电感式传感器最低耐温可至-60℃，这些传感器均具备最高的防护等级（IP68/IP69K）。

耐低温型传感器可用在：

- 冷却系统
- 冷却—干燥系统
- 户外安装耐极限气候

## 耐高温至+100℃型

耐高温至+100℃型电感式传感器多为金属或塑料外壳，也有特殊的外壳形式。为容易识别，这种耐高温传感器的标志代码为“S100”。它们的温度范围为：-25℃~+100℃。

典型应用：

- 酿酒和奶制品工业
- 塑料加工设备
- 金属铸造
- 玻璃工业
- 棒材和板材轨钢

这些传感器在温度经常变化的潮湿环境中也能可靠地工作，因而非常适合于户外应用。

金属外壳的此类传感器可应用于较大的机械应力环境下。

## 耐高温至+120℃型

耐高温至+120℃型电感式传感器为铜镀镍金属外壳。这种传感器的标志代码为“S120”。它们的温度范围为：-25℃~+120℃。

具有不锈钢外壳的气候型

气候型尤其适用于潮湿环境且同时温度快速变化的场合。圆柱螺纹型由不锈钢制成，PTFE材质的导线和两端都具有优良的耐化学腐蚀性。这种传感器在直径代码后用“D”加以区分，如EM18D或EM30D，这型号代码扩展至“S120”。它们的耐温范围为：-25℃~+120℃。

## 耐高温至+160℃型

TURCK耐高温至+160℃的电感式传感器在极端恶劣环境条件下，也能用于安全地位置控制，它们具有内置放大器，识别代码为“S907”。

## 极限耐高温至+250℃型

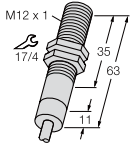




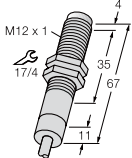




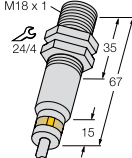




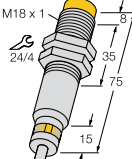




带有外部放大器的耐高温至+250℃型传感器通过M12插接件进行快速联接，放大器为M30不锈钢外壳，符合IP67安全防护等级，可直接安装于高温区域。该传感器的导线由铝壳保护。此传感器的开关距离通过放大器上的电位器可调。

此类型传感器的一个典型应用是在油漆烘干车间自动化系统，此型号的识别代码为“S1102”。

- 从-60℃~+250℃五种不同的耐温等级
- 丰富的外形：M8, M12, M18, M30, 40 x 40, 80 x 80
- 用于潮湿环境的特殊密封
- 适配不同温度范围的导线
- 优良的EMC特性



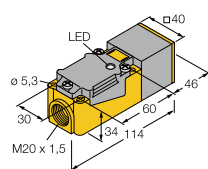



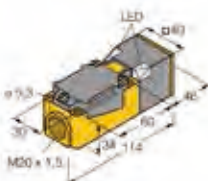





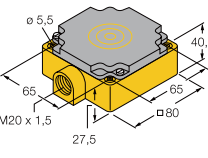








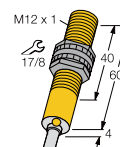





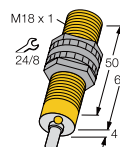





## 耐低温至-60 °C的电感式传感器

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M12 x 1</b> 	2, 	 , PNP	10...30 VDC	200 DC, 	
	<b>M12 x 1</b> 	4, 	 , PNP	10...30 VDC	200 DC, 	
	<b>M18 x 1</b> 	5, 	 , PNP	10...30 VDC	200 DC, 	
	<b>M18 x 1</b> 	7, 	 , PNP	10...30 VDC	200 DC, 	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI2-EM12WD-AP6/S929</b>	4614515	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	-
<b>NI4-EM12WD-AP6/S929</b>	1633111	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	-
<b>BI5-EM18WD-AP6X/S929</b>	4614902	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	•
<b>NI7-EM18WD-AP6X/S929</b>	4632001	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	•

✘ = 优选型号

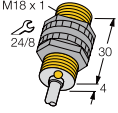



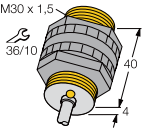



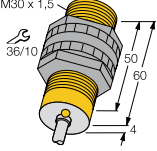











# 耐低温至-40°C的电感式传感器

尺寸/外形	特性	额定工作 距离Sn	输出	工作电压	额定工作 电流Ie	
	( $\text{Ex}$ 356)	[mm]			[mA]	
	<b>CP40</b> 	$\text{Ex}$ II 2 G SIL2 T -40°C	15, 	NAMUR	nom. 8.2 VDC	-
	$\text{Ex}$ II 2 G SIL2 T -40°C	20, 	NAMUR	nom. 8.2 VDC	-	
	<b>CP40</b> 	T -40°C	15, 	PNP	10...65 VDC	200 DC, $\text{K}$
	T -40°C	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC	
	T -40°C	20, 	PNP	10...65 VDC	200 DC, $\text{K}$	
	T -40°C	20, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC	
	<b>CP80</b> 	$\text{Ex}$ II 2 G SIL2 T -40°C	40, 	NAMUR	nom. 8.2 VDC	-
	T -40°C	40, 	PNP	10...65 VDC	200 DC, $\text{K}$	
	T -40°C	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC	
	<b>M12 x 1</b> 	$\text{Ex}$ II 2 G SIL2 T -40°C	2, 	NAMUR	nom. 8.2 VDC	-
	$\text{Ex}$ II 2 G SIL2 T -40°C	5, 	NAMUR	nom. 8.2 VDC	-	
	<b>M12 x 1</b> 	T -40°C	2, 	PNP	10...30 VDC	200 DC, $\text{K}$
	T -40°C	2, 	program.	20...250 VAC 10...300 VDC	100 AC 100 DC	
	T -40°C	4, 	PNP	10...30 VDC	200 DC, $\text{K}$	
	T -40°C	4, 	program.	20...250 VAC 10...300 VDC	100 AC 100 DC	
	<b>M18 x 1</b> 	T -40°C	5, 	PNP	10...65 VDC	200 DC, $\text{K}$
	T -40°C	5, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC	
	T -40°C	8, 	PNP	10...65 VDC	200 DC, $\text{K}$	
	T -40°C	8, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>BI15-CP40-Y1X/S97</b>	10397	S027	0.15	-40...+70	IP67	PBT	PBT	-	-	•
<b>NI20-CP40-Y1X/S97</b>	10432	S027	0.15	-40...+70	IP67	PBT	PBT	-	-	•
<b>BI15-CP40-VP4X2/S97</b>	15058 <b>x</b>	S009	0.15	-40...+70	IP67	PBT	PBT	-	•	•
<b>BI15-CP40-FZ3X2/S97</b>	1341015	S016	0.02	-40...+70	IP67	PBT	PBT	-	•	•
<b>NI20-CP40-VP4X2/S97</b>	1569101	S009	0.15	-40...+70	IP67	PBT	PBT	-	•	•
<b>NI20-CP40-FZ3X2/S97</b>	1340123	S016	0.02	-40...+70	IP67	PBT	PBT	-	•	•
<b>NI40-CP80-Y1/S97</b>	1040010	S027	0.1	-40...+70	IP67	PBT	PBT	-	-	-
<b>NI40-CP80-VP4X2/S97</b>	1569522	S009	0.1	-40...+70	IP67	PBT	PBT	-	•	•
<b>NI40-CP80-FZ3X2/S97</b>	1340510	S016	0.01	-40...+70	IP67	PBT	PBT	-	•	•
<b>BI2-P12-Y1X/S97</b>	4030021	S025	5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI5-P12-Y1X/S97</b>	1009402	S025	2	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI2-S12-AP6X/S97</b>	16645	S001	2	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI2-S12-AZ31X/S97</b>	1302002	S092	0.02	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI4-S12-AP6X/S97</b>	4653221	S001	2	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI4-S12-AZ31X/S97 3M</b>	1302203	S092	0.02	-40...+70	IP67	PA	PA	Silic. 3 m	-	•
<b>BI5-S18-VP4X/S97</b>	1513420	S007	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI5-S18-AZ3X/S97</b>	1373410	S092	0.02	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI8-S18-VP4X/S97</b>	1513512	S007	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI8-S18-AZ3X/S97</b>	1371803	S092	0.02	-40...+70	IP67	PA	PA	Silic. 2 m	-	•

**x** = 优选型号

## 耐低温至-40°C的电感式传感器

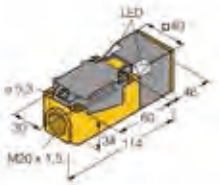











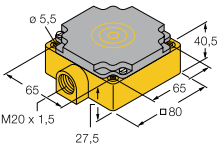






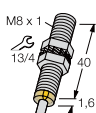







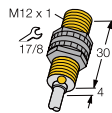



尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M18 x 1</b> 	$\text{Ex II 2 G}$ SIL2 T -40°C	5, 	NAMUR	nom. 8.2 VDC	-
		$\text{Ex II 2 G}$ SIL2 T -40°C	10, 	NAMUR	nom. 8.2 VDC	-
	<b>M30 x 1,5</b> 	$\text{Ex II 2 G}$ SIL2 T -40°C	10, 	NAMUR	nom. 8.2 VDC	-
		$\text{Ex II 2 G}$ SIL2 T -40°C	15, 	NAMUR	nom. 8.2 VDC	-
	<b>M30 x 1,5</b> 	T -40°C	10, 	 , PNP	10...65 VDC	200 DC, 
		T -40°C	10, 		20...250 VAC 10...300 VDC	400 AC 300 DC
		T -40°C	15, 	 , PNP	10...65 VDC	200 DC, 
		T -40°C	15, 		20...250 VAC 10...300 VDC	400 AC 300 DC

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI5-P18-Y1X/S97</b>	4035001	S025	1	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI10-P18-Y1X/S97</b>	4035121	S025	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI10-P30-Y1X/S97</b>	1023322	S025	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI15-P30-Y1X/S97</b>	1022704	S025	0.2	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI10-S30-VP4X/S97</b>	1512221	S007	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>BI10-S30-AZ3X/S97</b>	4355421	S092	0.02	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI15-S30-VP4X/S97</b>	1514110	S007	0.5	-40...+70	IP67	PA	PA	Silic. 2 m	-	•
<b>NI15-S30-AZ3X/S97</b>	1375803	S092	0.02	-40...+70	IP67	PA	PA	Silic. 2 m	-	•

3

✘ = 优选型号

# 耐高温至100 °C的电感式传感器




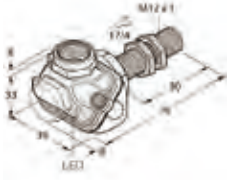


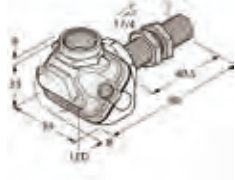






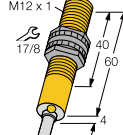









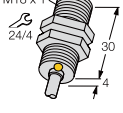


尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>CP40</b> 	$\text{Ex}$ II 2 G SIL2 T +100°C	15, 	NAMUR	nom. 8.2 VDC	-
		$\text{Ex}$ II 2 G SIL2 T +100°C	20, 	NAMUR	nom. 8.2 VDC	-
		T +100°C	15, 	 , PNP	10...65 VDC	200 DC, 
		T +100°C	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC
		T +100°C	20, 	 , PNP	10...65 VDC	200 DC, 
		T +100°C	20, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC
	<b>CP80</b> 	$\text{Ex}$ II 2 G SIL2 T +100°C	40, 	NAMUR	nom. 8.2 VDC	-
		T +100°C	40, 	 , PNP	10...65 VDC	200 DC, 
		T +100°C	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC
	<b>M8 x 1</b> 	T +100°C	2, 	 , PNP	10...30 VDC	150 DC, 
		T +100°C	2, 	 , NPN	10...30 VDC	150 DC, 
	<b>M12 x 1</b> 	$\text{Ex}$ II 2 G SIL2 T +100°C	2, 	NAMUR	nom. 8.2 VDC	-
		$\text{Ex}$ II 2 G SIL2 T +100°C	5, 	NAMUR	nom. 8.2 VDC	-

参见250页

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI15-CP40-Y1X/S100</b>	10396	S027	0.15	-25...+100	IP67	PBT	PBT	-	-	•
<b>NI20-CP40-Y1X/S100</b>	1011121	S027	0.15	-25...+100	IP67	PBT	PBT	-	-	•
<b>BI15-CP40-VP4X2/S100</b>	15045 ✕	S009	0.15	-25...+100	IP67	PBT	PBT	-	•	•
<b>BI15-CP40-FZ3X2/S100</b>	13440 ✕	S016	0.02	-25...+100	IP67	PBT	PBT	-	•	•
<b>NI20-CP40-VP4X2/S100</b>	15046 ✕	S009	0.15	-25...+100	IP67	PBT	PBT	-	•	•
<b>NI20-CP40-FZ3X2/S100</b>	13441 ✕	S016	0.02	-25...+100	IP67	PBT	PBT	-	•	•
<b>NI40-CP80-Y1/S100</b>	10404 ✕	S027	0.1	-25...+100	IP67	PBT	PBT	-	-	-
<b>NI40-CP80-VP4X2/S100</b>	15095 ✕	S009	0.1	-25...+100	IP67	PBT	PBT	-	•	•
<b>NI40-CP80-FZ3X2/S100</b>	13443 ✕	S016	0.01	-25...+100	IP67	PBT	PBT	-	•	•
<b>BI2-EG08-AP6X/S100</b>	4602047 ✕	S001	3	-25...+100	IP67	VA	PA	TPE 2 m	-	•
<b>BI2-EG08-AN6X/S100</b>	4602108	S004	3	-25...+100	IP67	VA	PA	TPE 2 m	-	•
<b>BI2-P12-Y1/S100</b>	10302 ✕	S025	5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
<b>NI5-P12-Y1/S100</b>	10242	S025	2	-25...+100	IP67	PA	PA	PVC 2 m	-	-

✕ = 优选型号

# 耐高温至100 °C的电感式传感器

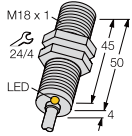




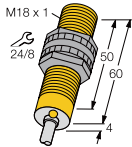









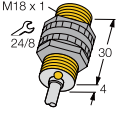





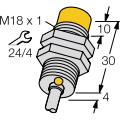




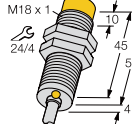




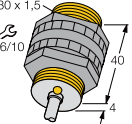




尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
 <p>M12 x 1 17/4 30 4</p>	<b>M12 x 1</b>  Ⓔ II 1 G Ⓔ II 1 D SIL2 T +100°C	2, 	NAMUR	nom. 8.2 VDC	-
 <p>M12 x 1 17/4 33 30 4</p>	<b>M12 x 1</b>  Ⓔ II 1 G Ⓔ II 1 D Ⓔ II 2 G SIL2	2, 	NAMUR	nom. 8.2 VDC	
 <p>M12 x 1 17/4 33 30 4</p>	<b>M12 x 1</b>  T +100°C	4, 	 , PNP	10...30 VDC	200 DC, Ⓚ
 <p>M12 x 1 17/4 10 30 4</p>	<b>M12 x 1</b>  Ⓔ II 1 G Ⓔ II 1 D SIL2 T +100°C	5, 	NAMUR	nom. 8.2 VDC	-
 <p>M12 x 1 17/8 40 60 4</p>	<b>M12 x 1</b> 	T +100°C 2, 	 , PNP	10...30 VDC	200 DC, Ⓚ
		T +100°C 2, 		20...250 VAC 10...300 VDC	100 AC 100 DC
		T +100°C 4, 	 , PNP	10...30 VDC	200 DC, Ⓚ
		T +100°C 4, 		20...250 VAC 10...300 VDC	100 AC 100 DC
 <p>M18 x 1 24/4 30 4</p>	<b>M18 x 1</b>  Ⓔ II 1 G Ⓔ II 1 D SIL2 T +100°C	5, 	NAMUR	nom. 8.2 VDC	-

参见250页

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI2-EG12-Y1X/S100 7M</b>	4012003 ✕	S025	5	-25...+100	IP67	VA	PA	PVC 7 m	-	•
<b>BI2-EM12WDTC-Y1X</b>	4012051 ✕	S025	5	-40...+100	IP68/IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WDTC-AP6X</b>	1634760 ✕	S001	2	-40...+100	IP68/IP69K	VA	LCP	-	-	•
<b>NI5-EG12-Y1X/S100 7M</b>	4012008 ✕	S025	2	-25...+100	IP67	VA	PA	PVC 7 m	-	•
<b>BI2-S12-AP6X/S100</b>	4653023 ✕	S001	2	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>BI2-S12-AZ31X/S100</b>	1302001	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI4-S12-AP6X/S100</b>	4653201 ✕	S001	2	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI4-S12-AZ31X/S100</b>	1302201	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>BI5-EG18-Y1X/S100 7M</b>	4012007 ✕	S025	1	-25...+100	IP67	VA	PA	PVC 7 m	-	•

✕ = 优选型号

# 耐高温至100 °C的电感式传感器

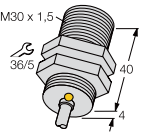







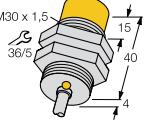


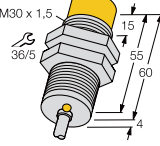


尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]	
	<b>M18 x 1</b> 	T +100°C	5, 	 , PNP	10...30 VDC 200 DC, 	
	<b>M18 x 1</b> 	T +100°C T +100°C T +100°C T +100°C	5,  5,  8,  8, 	 , PNP  , PNP  , PNP 	10...65 VDC 20...250 VAC 10...300 VDC 10...65 VDC 20...250 VAC 10...300 VDC	200 DC,  400 AC 300 DC 200 DC,  400 AC 300 DC
	<b>M18 x 1</b> 	 II 2 G SIL2 T +100°C  II 2 G SIL2 T +100°C	5,  10, 	NAMUR NAMUR	nom. 8.2 VDC nom. 8.2 VDC	- -
	<b>M18 x 1</b> 	 II 1 G  II 1 D SIL2 T +100°C	10, 	NAMUR	nom. 8.2 VDC	-
	<b>M18 x 1</b> 	T +100°C	8, 	 , PNP	10...30 VDC 200 DC, 	
	<b>M30 x 1,5</b> 	 II 2 G SIL2 T +100°C  II 2 G SIL2 T +100°C	10,  15, 	NAMUR NAMUR	nom. 8.2 VDC nom. 8.2 VDC	- -

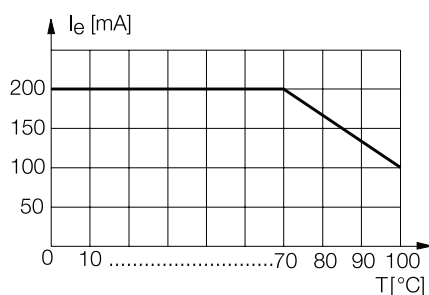
参见250页

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>BI5-M18-AP6X/S100</b>	4611004 ✕	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
<b>BI5-S18-VP4X/S100</b>	1513402	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>BI5-S18-AZ3X/S100</b>	13734 ✕	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI8-S18-VP4X/S100</b>	1513510	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI8-S18-AZ3X/S100</b>	13718 ✕	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>BI5-P18-Y1/S100</b>	10245 ✕	S025	1	-25...+100	IP67	PA	PA	PVC 2 m	-	-
<b>NI10-P18-Y1/S100</b>	10317 ✕	S025	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
<b>NI10-EG18-Y1X/S100 7M</b>	4012006 ✕	S025	0.5	-25...+100	IP67	VA	PA	PVC 7 m	-	•
<b>NI8-M18-AP6X/S100</b>	4611201 ✕	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
<b>BI10-P30-Y1/S100</b>	10233 ✕	S025	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
<b>NI15-P30-Y1/S100</b>	10227 ✕	S025	0.2	-25...+100	IP67	PA	PA	PVC 2 m	-	-

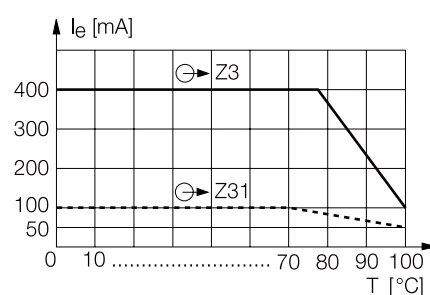
✕ = 优选型号

# 耐高温至100 °C的电感式传感器

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
	<b>M30 x 1,5</b>  ⚠ II 1 G ⚠ II 1 D SIL2 T +100°C	10, 	NAMUR	nom. 8.2 VDC	-
	<b>M30 x 1,5</b>  T +100°C	10, 	 , PNP	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b>  T +100°C T +100°C T +100°C T +100°C	10,  10,  15,  15, 	 , PNP   , PNP 	10...65 VDC 20...250 VAC 10...300 VDC 10...65 VDC 20...250 VAC 10...300 VDC	200 DC, (K) 400 AC 300 DC 200 DC, (K) 400 AC 300 DC
	<b>M30 x 1,5</b>  ⚠ II 1 G ⚠ II 1 D SIL2 T +100°C	15, 	NAMUR	nom. 8.2 VDC	-
	<b>M30 x 1,5</b>  T +100°C	15, 	 , PNP	10...30 VDC	200 DC, (K)



DC 3/4 wire

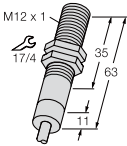




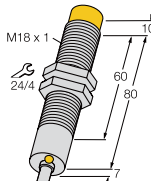



AC 2-wire

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI10-EG30-Y1X/S100 7M</b>	4012005 ✕	S025	0.5	-25...+100	IP67	VA	PA	PVC 7 m	-	•
<b>BI10-M30-AP6X/S100</b>	4617004 ✕	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
<b>BI10-S30-VP4X/S100</b>	15140 ✕	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>BI10-S30-AZ3X/S100</b>	13719 ✕	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI15-S30-VP4X/S100</b>	15141 ✕	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI15-S30-AZ3X/S100</b>	13758 ✕	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
<b>NI15-EG30-Y1X/S100 7M</b>	4012004 ✕	S025	0.2	-25...+100	IP67	VA	PA	PVC 7 m	-	•
<b>NI15-M30-AP6X/S100</b>	4617200 ✕	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•

✕ = 优选型号

# 耐高温至120 °C的电感式传感器







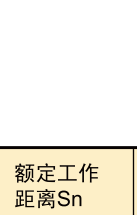




尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]
	<b>M12 x 1</b> 	2, 	 , PNP	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	4, 	 , PNP	10...30 VDC	200 DC, 
	<b>M18 x 1</b> 	5,  5, 	 , PNP 	10...30 VDC 20...250 VAC	200 DC,  400 AC
	<b>M18 x 1</b> 	5, 	 , PNP	10...30 VDC	200 DC, 
	<b>M18 x 1</b> 	8,  8, 	 , PNP 	10...30 VDC 20...250 VAC	200 DC,  400 AC
	<b>M18 x 1</b> 	7, 	 , PNP	10...30 VDC	200 DC, 

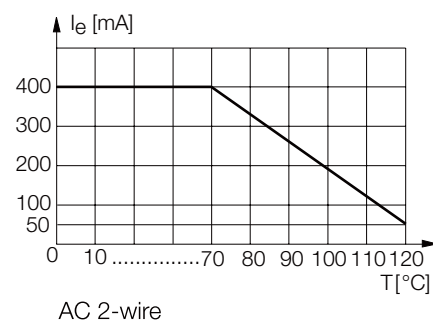
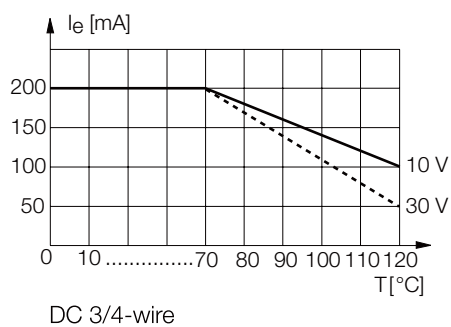
参见254页

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI2-EM12D-AP6/S120</b>	4614512 ✕	S001	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	-
<b>NI4-EM12D-AP6/S120</b>	1633110 ✕	S001	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	-
<b>BI5-M18-AP6X/S120</b>	4611030 ✕	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>BI5-M18-AZ3X/S120</b>	4310410 ✕	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>BI5-EM18D-VP6X/S120</b>	4614900 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>NI8-M18-AP6X/S120</b>	4611230 ✕	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>NI8-M18-AZ3X/S120</b>	4310530 ✕	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	PTFE 2 m	-	•
<b>NI7-EM18D-VP6X/S120</b>	4632100 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•

✕ = 优选型号

# 耐高温至120 °C的电感式传感器

尺寸/外形	特性 (  )	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M30 x 1,5</b> 	-	10, 	 , PNP	200 DC, 
		-	10, 		400 AC
	<b>M30 x 1,5</b> 	T +120°C	10, 	 , PNP	200 DC, 
		wash down			
	<b>M30 x 1,5</b> 	T +120°C	15, 	 , PNP	200 DC, 
		T +120°C	15, 		400 AC
	<b>M30 x 1,5</b> 	T +120°C	15, 	 , PNP	200 DC, 
		wash down			
	<b>Q160</b> 	T +120°C	100, 	 , PNP	400 DC, 

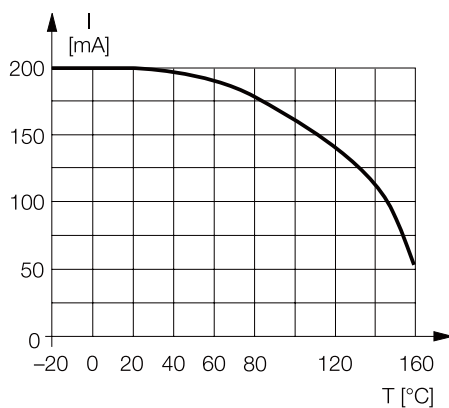


型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI10-M30-AP6X/S120</b>	4617010 ✕	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>BI10-M30-AZ3X/S120</b>	4316410 ✕	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>BI10-EM30D-VP6X/S120</b>	4617035 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>NI15-M30-AP6X/S120</b>	4617210 ✕	S001	0.5	-25...+120	IP67	CuZn-Cr	PA	Silic. 2 m	-	•
<b>NI15-M30-AZ3X/S120</b>	4316506 ✕	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	PTFE 2 m	-	•
<b>NI15-EM30D-VP6X/S120</b>	4617410 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>NI100-Q160-AP44X/S120</b>	1440012 ✕	S001	0.05	-25...+120	IP67	PPO	PPO	Silic. 2m	-	•

✕ = 优选型号

# 耐高温至160 °C的电感式传感器

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M18 x 1</b>  10 bar T +160°C	5, 	 , PNP	10...30 VDC	200 DC, 
	<b>M18 x 1</b>  T +160°C	8, 	 , PNP	10...30 VDC	200 DC, 
	<b>M30 x 1,5</b>  10 bar T +160°C	10, 	 , PNP	10...30 VDC	200 DC, 
	<b>M30 x 1,5</b>  T +160°C	15, 	 , PNP	10...30 VDC	200 DC, 


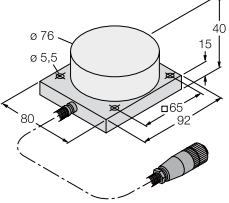




DC 3/4-wire

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI5-EM18-AP6/S907</b>	4617425 ✕	S001	0.2	-25...+160	IP68 / IP69K	VA	PEEK	PTFE 2 m	-	-
<b>NI8-EM18-AP6/S907</b>	4611231 ✕	S001	0.2	-25...+160	IP68 / IP69K	VA	PEEK	PTFE 2 m	-	-
<b>BI10-EM30-AP6/S907</b>	4614513 ✕	S001	0.2	-25...+160	IP68 / IP69K	VA	PEEK	PTFE 2 m	-	-
<b>NI15-EM30-AP6/S907</b>	4617412 ✕	S001	0.2	-25...+160	IP68 / IP69K	VA	PEEK	PTFE 2 m	-	-

✕ = 优选型号

# 耐高温至250 °C的电感式传感器

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
 <p>与放大器EM30-AP6X2-H1141/S1102配合使用</p>	<p><b>CQ40</b></p> <p>T +250°C</p> <p></p>	<p>25, </p>	<p>—</p>	<p>—</p>	<p>—</p>	
 <p>与放大器EM30-AP6X2-H1141/S1102配合使用</p>	<p><b>CQ80</b></p> <p>T +250°C</p> <p></p>	<p>40, </p>	<p>—</p>	<p>—</p>	<p>—</p>	
	<p><b>M30 x 1,5</b></p> <p>T +250°C</p> <p></p>	<p>—</p>	<p>, PNP</p>	<p>10...30 VDC</p>	<p>200 DC, </p>	

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED └┘
<b>NI25-CQ40/S1102 5M</b>	1602410 ✕	S173	-	0...+250	IP60	AL	PEEK	PTFE 5 m	-	-
<b>NI40-CQ80/S1102 5M</b>	1602404 ✕	S173	-	0...+250	IP60	AL	PEEK	PTFE 5 m	-	-
<b>EM30-AP6X2-H1141/S1102</b>	1602411 ✕	S174	0.04	-20...+70	IP67	VA	-	-	•	•

✕ = 优选型号

## 极限环境应用型电感式传感器(IP68/IP69K)



新型抗冲洗型uprox®+系列传感器能够很好的满足食品行业的所有需要。凭借此系列产品的优良性能，可以对各种应用进行优化，例如：奶制品厂、酿酒厂、面包和冷冻食品厂，还有食品行业中的包装和装填应用。

结合最先进的制造技术和印刷线圈技术，新型传感器能够达到传统铁芯传感器三倍的检测距离。然而，通常检测距离增强型传感器在安装方式上有较苛刻的要求。使用新型的uprox®+产品可以避免这个问题。独具创新的多线圈技术和集成预阻尼保护能够使此类产品在安装时具有极小的金属自由区。这就最大限度的减少了机构设计中的难度，并增强了系统自由度。



沉入式安装方式可以使传感器能够更好的防止机械损伤。衰减系数这个技术参数不复存在，由于新型的传感器对于铁、不锈钢、铜、铝和黄铜等各种金属均具有相同的检测距离。

独特的双片密封圈被放置于传感器的LCP前端盖部、圆柱形管壳和接插件内部。而放置于V4A不锈钢外壳内的传感器内部器件能够抵御强腐蚀性的酸性或碱性消毒剂和清洁剂的腐蚀。

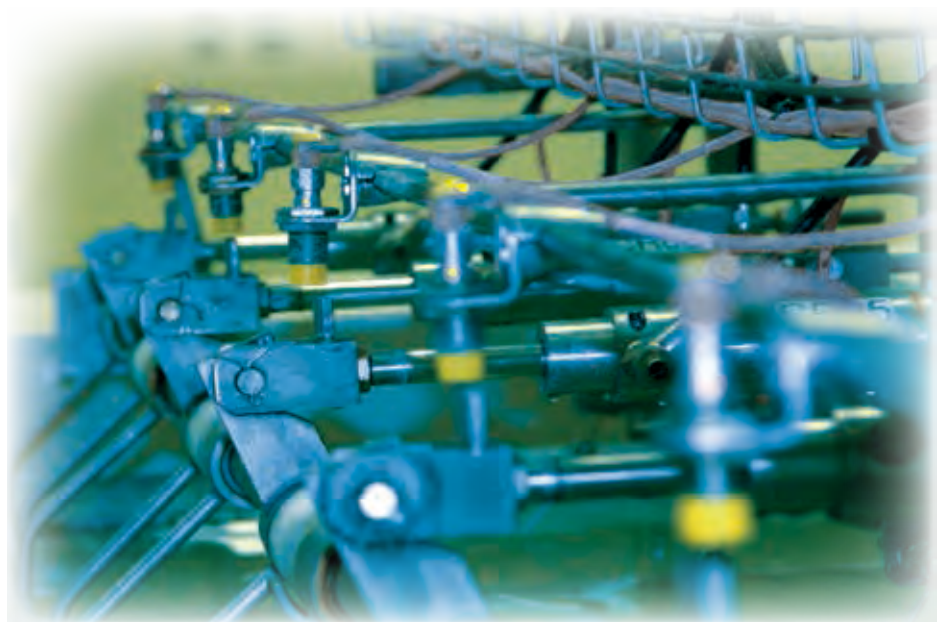
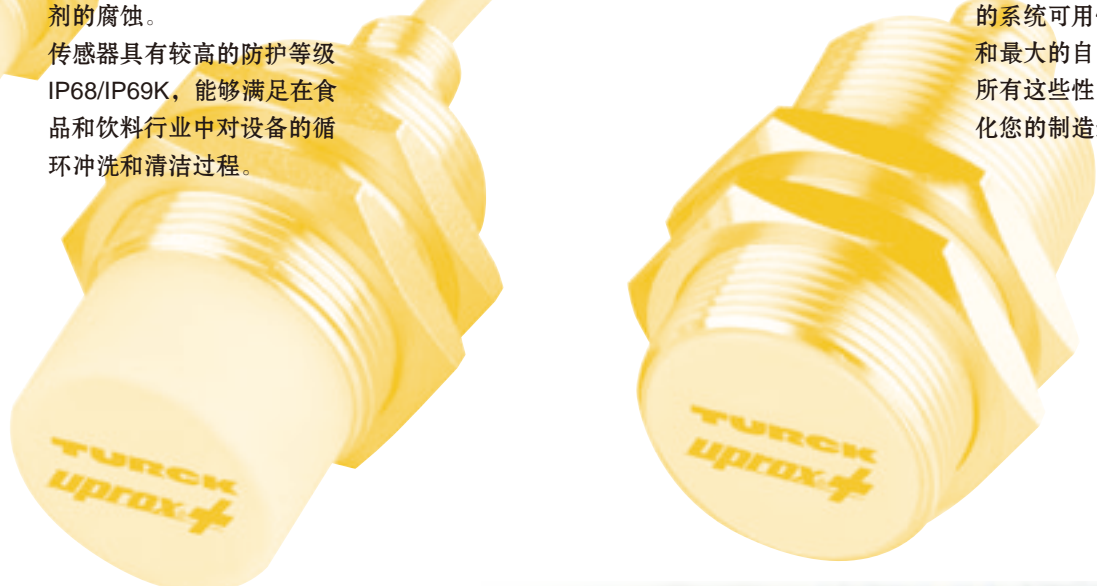
传感器具有较高的防护等级IP68/IP69K，能够满足在食品和饮料行业中对设备的循环冲洗和清洁过程。

对设备的例行清洁过程一般会使用化学清洁剂，会达到很高的温度（80度甚至更高）和处于高压环境下。TURCK公司专用于食品和饮料行业的uprox®+传感器能够很好的满足苛刻的应用需要，并且通过了第三方Ecolab实验室的测试。

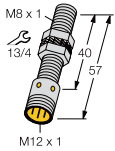



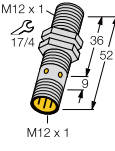





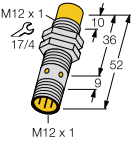





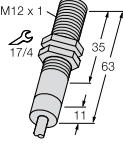



抗清洁剂和消毒剂腐蚀的外壳材料，优化的壳体密封圈和优良的EMC性能可以满足苛刻的工业应用环境。



uprox®+系列传感器同样适用于阳离子化应用。此类产品具有极高的系统可用性和易用性、高效能和最大的自由度。所有这些性能优势能够更好地优化您的制造过程！



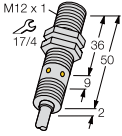



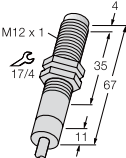



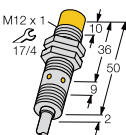



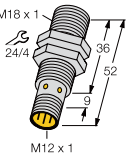










# 极限环境应用型电感式传感器(IP68/IP69K)

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>M8 x 1</b> 	20 bar wash down	1.5, 	—, PNP	10...30 VDC	150 DC, (K)
		20 bar wash down	1.5, 	—, NPN	10...30 VDC	150 DC, (K)
	<b>M12 x 1</b> 	20 bar uprox®+ wash down	4, 	—, PNP	10...30 VDC	200 DC, (K)
		II 3 D 20 bar uprox®+ wash down	4, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar uprox®+ wash down	4, 	—, NPN	10...30 VDC	200 DC, (K)
		II 3 D 20 bar uprox®+ wash down	4, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b> 	20 bar uprox®+ wash down	10, 	—, PNP	10...30 VDC	200 DC, (K)
		II 3 D 20 bar uprox®+ wash down	10, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar uprox®+ wash down	10, 	—, NPN	10...30 VDC	200 DC, (K)
		II 3 D 20 bar uprox®+ wash down	10, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b> 	20 bar wash down T -60 °C	2, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar wash down T +120 °C	2, 	—, PNP	10...30 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI1,5-EG08WD-AP6X-H1341</b>	4602210 ✕	S002	3	-25...+85	IP68 / IP69K	VA	PVDF	-	-	•
<b>BI1,5-EG08WD-AN6X-H1341</b>	4602211	S005	3	-25...+85	IP68 / IP69K	VA	PVDF	-	-	•
<b>BI4U-EM12WD-AP6X-H1141</b>	1634812 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WD-AP6X-H1141/3D</b>	1634851 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WD-AN6X-H1141</b>	1634841	S005	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WD-AN6X-H1141/3D</b>	1634852	S005	2	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AP6X-H1141</b>	1634814 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AP6X-H1141/3D</b>	1634857 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AN6X-H1141</b>	1634837	S005	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AN6X-H1141/3D</b>	1634858	S005	1	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI2-EM12WD-AP6/S929</b>	4614515	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	-
<b>BI2-EM12D-AP6/S120</b>	4614512 ✕	S001	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	-

✕ = 优选型号



# 极限环境应用型电感式传感器(IP68/IP69K)

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>M12 x 1</b> 	20 bar <i>uprox</i> <sup>®</sup> + wash down	4, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar <i>uprox</i> <sup>®</sup> + wash down	4, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b> 	20 bar wash down T -60 °C	4, 	—, PNP	10...30 VDC	200 DC, (K)
		T +120 °C wash down	4, 	—, PNP	10...30 VDC	200 DC, (K)
	<b>M12 x 1</b> 	20 bar <i>uprox</i> <sup>®</sup> + wash down	10, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar <i>uprox</i> <sup>®</sup> + wash down	10, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, PNP	10...30 VDC	200 DC, (K)
		 II 3 G  II 3 D 15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, NPN	10...30 VDC	200 DC, (K)
		 II 3 G  II 3 D 15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, NPN	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, NPN	10...30 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI4U-EM12WD-AP6X</b>	1634811 ✕	S001	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI4U-EM12WD-AN6X</b>	1634842	S004	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI4-EM12WD-AP6/S929</b>	1633111	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	-
<b>NI4-EM12D-AP6/S120</b>	1633110 ✕	S001	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	-
<b>NI10U-EM12WD-AP6X</b>	1634813 ✕	S001	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI10U-EM12WD-AN6X</b>	1634838	S004	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI8U-EM18WD-AP6X-H1141</b>	1634816 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AP6X-H1141/3GD</b>	1634853 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AN6X-H1141</b>	1634839	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AN6X-H1141/3GD</b>	1634854	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•

✕ = 优选型号

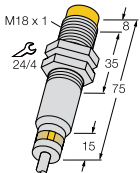




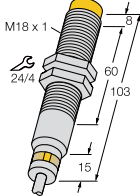




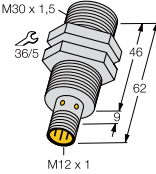















# 极限环境应用型电感式传感器 (IP68 / IP69K)

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
	<b>M18 x 1</b> 	15, 	—, PNP	10...30 VDC	200 DC, 
	 II 3 D 15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, PNP	10...30 VDC	200 DC, 
	15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, 
	 II 3 D 15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, 
	<b>M18 x 1</b> 	8, 	—, PNP	10...30 VDC	200 DC, 
	15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, NPN	10...30 VDC	200 DC, 
	<b>M18 x 1</b> 	5, 	—, PNP	10...30 VDC	200 DC, 
	15 bar wash down T -60 °C				
	<b>M18 x 1</b> 	5, 	—, PNP	10...30 VDC	200 DC, 
	T +120 °C wash down				
	<b>M18 x 1</b> 	15, 	—, PNP	10...30 VDC	200 DC, 
	15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, 
	15 bar <i>uprox</i> <sup>®</sup> + wash down				

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED └┘
<b>NI15U-EM18WD-AP6X-H1141</b>	1634818 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18WD-AP6X-H1141/3D</b>	1634859 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18WD-AN6X-H1141</b>	1634835	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18WD-AN6X-H1141/3D</b>	1634860	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AP6X</b>	1634815 ✕	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI8U-EM18WD-AN6X</b>	1634840	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI5-EM18WD-AP6X/S929</b>	4614902	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	•
<b>BI5-EM18D-VP6X/S120</b>	4614900 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>NI15U-EM18WD-AP6X</b>	1634817 ✕	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15U-EM18WD-AN6X</b>	1634836	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•

✕ = 优选型号

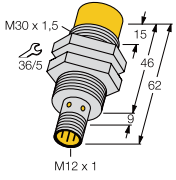




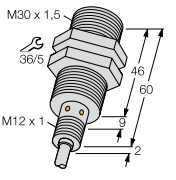



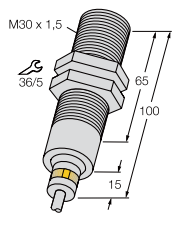


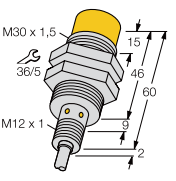



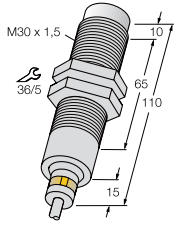


# 极限环境应用型电感式传感器 (IP68 / IP69K)

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
	<b>M18 x 1</b>  15 bar wash down T -60 °C	7, 	 , PNP	10...30 VDC	200 DC, 
	<b>M18 x 1</b>  T +120 °C wash down	7, 	 , PNP	10...30 VDC	200 DC, 
	<b>M30 x 1,5</b>  10 bar <i>uprox</i> <sup>®</sup> wash down  II 3 G  II 3 D 10 bar <i>uprox</i> <sup>®</sup> wash down	15,  15,  15,  15, 	 , PNP  , PNP  , NPN  , NPN	10...30 VDC	200 DC, 
	10 bar <i>uprox</i> <sup>®</sup> wash down  II 3 G  II 3 D 10 bar <i>uprox</i> <sup>®</sup> wash down			10...30 VDC	200 DC, 

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>NI7-EM18WD-AP6X/S929</b>	4632001	S001	1	-60...+60	IP68 / IP69K	VA	PTFE	FEP 2 m	-	•
<b>NI7-EM18D-VP6X/S120</b>	4632100 ✘	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>BI15U-EM30WD-AP6X-H1141</b>	1634820 ✘	S002	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AP6X-H1141/ 3GD</b>	1634855 ✘	S002	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AN6X-H1141</b>	1634834	S005	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AN6X-H1141/ 3GD</b>	1634856	S005	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•

✘ = 优选型号

# 极限环境应用型电感式传感器 (IP68 / IP69K)

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M30 x 1,5</b> 	30, 	—, PNP	10...30 VDC	200 DC, (K)
	10 bar <i>uprox</i> <sup>®</sup> + wash down Ex II 3 D	30, 	—, PNP	10...30 VDC	200 DC, (K)
	10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	—, NPN	10...30 VDC	200 DC, (K)
	10 bar <i>uprox</i> <sup>®</sup> + wash down Ex II 3 D	30, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	15, 	—, PNP	10...30 VDC	200 DC, (K)
	10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	10, 	—, PNP	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	30, 	—, PNP	10...30 VDC	200 DC, (K)
	10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	15, 	—, PNP	10...30 VDC	200 DC, (K)
	T +120 °C wash down				

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌┐
<b>NI30U-EM30WD-AP6X-H1141</b>	1634822 ✕	S002	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-EM30WD-AP6X-H1141/3D</b>	1634861 ✕	S002	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-EM30WD-AN6X-H1141</b>	1634832	S005	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-EM30WD-AN6X-H1141/3D</b>	1634862	S005	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AP6X</b>	1634819 ✕	S001	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI15U-EM30WD-AN6X</b>	1634843	S004	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI10-EM30D-VP6X/S120</b>	4617035 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•
<b>NI30U-EM30WD-AP6X</b>	1634821 ✕	S001	0.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI30U-EM30WD-AN6X</b>	1634833	S004	0.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15-EM30D-VP6X/S120</b>	4617410 ✕	S007	0.1	-25...+120	IP68 / IP69K	VA	PTFE	PTFE 2 m	-	•

✕ = 优选型号

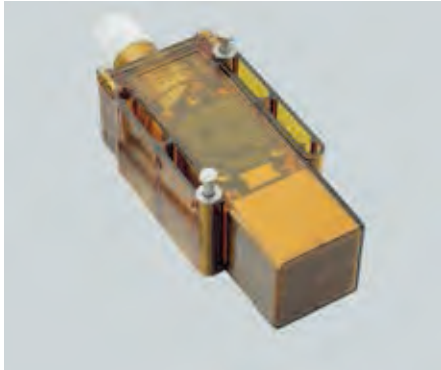
# 深水应用型电感式传感器



深水应用型电感式传感器  
深水应用型传感器外壳耐海底特殊压力和渗透防护，能连续地在水下500米深处工作，因而，它们也能用于水闸、水坝和海岸区域。



尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>CP40</b> 	水下 35,	, PNP	10...65 VDC	200 DC, (K)	
	<b>M18 x 1</b> 	水下 500m 5,	, NPN	10...30 VDC	200 DC, (K)	
		水下 500m 5,	, NPN	10...30 VDC	200 DC, (K)	
		水下 500m 5,		20...250 VAC 10...300 VDC	400 AC 300 DC	
		II 2 G SIL2 水下 500m	8,	NAMUR	nom. 8.2 VDC	-
		水下 500m 8,	, PNP	10...30 VDC	200 DC, (K)	
		水下 500m 8,	, NPN	10...30 VDC	200 DC, (K)	
		水下 500m 8,		20...250 VAC 10...300 VDC	400 AC 300 DC	



此外，TURCK提供一种适用于CP40外壳的安装附件，传感器能安装在SG40/2外壳中，能保持有较高的检测距离，并将防护等级提升至IP68等级，并适应在水下5米环境中工作。

可在水闸或堤坝中安装和应用。



型号	订货号	连接方式 (IEC 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (IEC 334)	感应面 (IEC 334)	导线 (IEC 334)	LED U <sub>B</sub>	LED ┘
<b>NI35-CP40-VP4X2/S369-F 30M</b>	1569425	S176	0.15	-25...+70	IP68	Ultem	Ultem	Ölflex 30 m	•	•
<b>BI5-P18-AP6/S139-S90</b>	1660350	S001	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
<b>BI5-P18-AN6/S139-S90</b>	1660351	S004	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
<b>BI5-P18-AZ3/S139-S90</b>	13843	S092	0.02	-25...+70	IP68	POM	POM	PUR 2 m	-	-
<b>NI8-P18-Y1/S139</b>	1072501	S025	1	-25...+70	IP68	POM	POM	PVC 2 m	-	-
<b>NI8-P18-AP6/S139-S90</b>	1650082	S001	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
<b>NI8-P18-AN6/S139-S90</b>	1650083	S004	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
<b>NI8-P18-AZ3/S139-S90</b>	1350002	S092	0.02	-25...+70	IP68	POM	POM	PUR 2 m	-	-

## 耐高压型电感式传感器



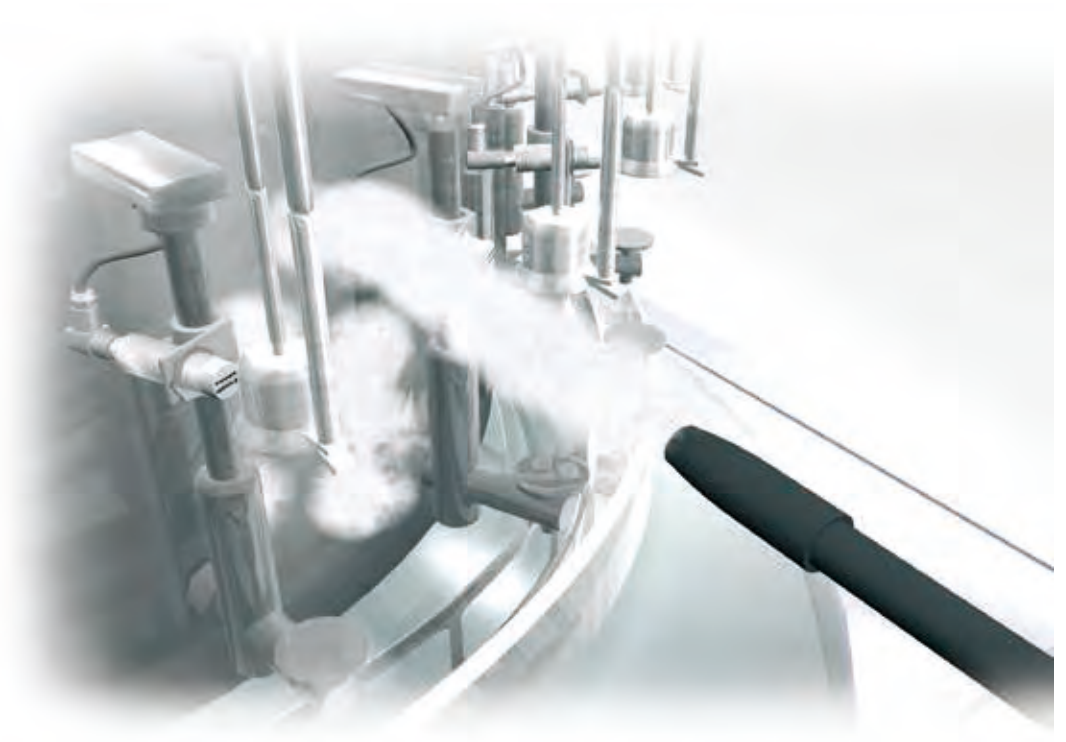
耐高压型电感式传感器系列中包括3种系列，分别根据不同的应用进行最佳设计的。



## 耐高压型电感式传感器

S220型耐高压电感式传感器非常适用于液压系统，它的前端具有特殊的密封圈和一个附加的外部“O”型密封圈以保证其应用于最高100bar的高压环境。内部线圈结构被完全密封包裹，以便能在水或油性液体中完全浸泡，进行动态检测（应用于导体介质）。

类似于S220型传感器，S212型静态耐压型也同样非常适用于液压系统，独特的表面结构能有效的抵抗外在的压力，保护内部的线圈结构。S212型耐高压型电感式传感器最高能抵抗500bar的压力（应用于非导体介质）。



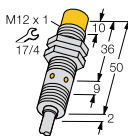





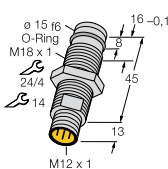





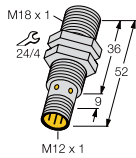





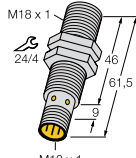





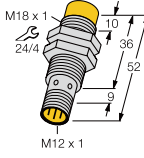





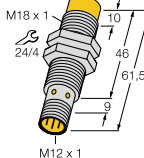



# 耐高压型电感式传感器

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M8 x 1</b> 	1.5, 	 , PNP	10...30 VDC	150 DC, 
	<b>M8 x 1</b> 	1.5, 	 , NPN	10...30 VDC	150 DC, 
	<b>M12 x 1</b> 	4, 	 , PNP	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	4, 	 , NPN	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	4, 	 , PNP	10...55 VDC	200 DC, 
	<b>M12 x 1</b> 				
	<b>M12 x 1</b> 	10, 	 , PNP	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	10, 	 , NPN	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	10, 	 , PNP	10...55 VDC	200 DC, 
	<b>M12 x 1</b> 				
	<b>M12 x 1</b> 	4, 	 , PNP	10...30 VDC	200 DC, 
	<b>M12 x 1</b> 	4, 	 , NPN	10...30 VDC	200 DC, 

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>BI1,5-EG08WD-AP6X-H1341</b>	4602210 ✕	S002	3	-25...+85	IP68 / IP69K	VA	PVDF	-	-	•
<b>BI1,5-EG08WD-AN6X-H1341</b>	4602211	S005	3	-25...+85	IP68 / IP69K	VA	PVDF	-	-	•
<b>BI4U-EM12WD-AP6X-H1141</b>	1634812 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WD-AN6X-H1141</b>	1634841	S005	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12EWD-VP44X-H1141</b>	1634905 ✕	S008	2	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AP6X-H1141</b>	1634814 ✕	S002	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12WD-AN6X-H1141</b>	1634837	S005	2	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI10U-EM12EWD-VP44X-H1141</b>	1634896	S008	2	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI4U-EM12WD-AP6X</b>	1634811 ✕	S001	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI4U-EM12WD-AN6X</b>	1634842	S004	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•

✕ = 优选型号

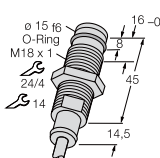



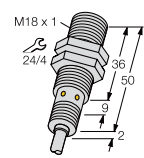



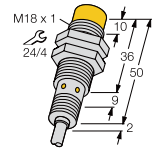



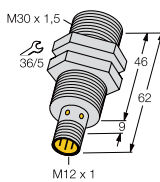




# 耐高压型电感式传感器

尺寸/外形	特性	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>M12 x 1</b>  20 bar <i>uprox</i> <sup>®</sup> + wash down	10, 	 , PNP	10...30 VDC	200 DC, (K)
	20 bar <i>uprox</i> <sup>®</sup> + wash down	10, 	 , NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>  500 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
	100 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>  15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	 , PNP	10...30 VDC	200 DC, (K)
	15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	 , NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>  15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	 , PNP	10...55 VDC	200 DC, (K)
	15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	 , NPN	10...55 VDC	200 DC, (K)
	<b>M18 x 1</b>  15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	 , PNP	10...30 VDC	200 DC, (K)
	15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	 , NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b>  15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	 , PNP	10...55 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌┐
<b>NI10U-EM12WD-AP6X</b>	1634813 ✕	S001	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI10U-EM12WD-AN6X</b>	1634838	S004	2	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BID2-G180-AP6-H1141/S212</b>	16885 ✕	S002	2	-25...+70	IP67	VA	PA	-	-	-
<b>BID2-G180-AP6-H1141/S220</b>	1688501	S002	2	-25...+70	IP67	VA	PA	-	-	-
<b>BI8U-EM18WD-AP6X-H1141</b>	1634816 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18WD-AN6X-H1141</b>	1634839	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18MWD-VP44X-H1141</b>	1634897	S008	1.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI8U-EM18MWD-VN44X-H1141</b>	1635127	S011	1.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18WD-AP6X-H1141</b>	1634818 ✕	S002	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18WD-AN6X-H1141</b>	1634835	S005	1.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI15U-EM18MWD-VP44X-H1141</b>	1634898	S008	1.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•

✕ = 优选型号

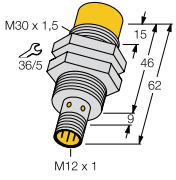




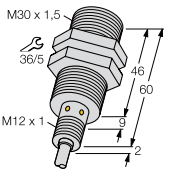



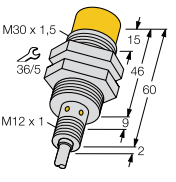



# 耐高压型电感式传感器

尺寸/外形	特性	额定工作 距离Sn  [mm]	输出	工作电压	额定工作 电流Ie  [mA]	
	<b>M18 x 1</b> 	100 bar	2, 	—, PNP	10...30 VDC	200 DC, (K)
		500 bar	2, 	—, PNP	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> + wash down	8, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M18 x 1</b> 	15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, PNP	10...30 VDC	200 DC, (K)
		15 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, PNP	10...55 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, PNP	10...30 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	—, NPN	10...30 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED	LED
									U <sub>B</sub>	┘
<b>BID2-G180-AP6/S220</b>	16880	S001	2	-25...+70	IP67	VA	PA	PVC 2 m	-	-
<b>BID2-G180-AP6/S212</b>	1688003 ✘	S001	2	-25...+85	IP67	VA	PA	PVC 2 m	-	-
<b>BI8U-EM18WD-AP6X</b>	1634815 ✘	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI8U-EM18WD-AN6X</b>	1634840	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15U-EM18WD-AP6X</b>	1634817 ✘	S001	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI15U-EM18WD-AN6X</b>	1634836	S004	1.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI15U-EM30WD-VP44X-H1141</b>	1634899	S008	0.75	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AP6X-H1141</b>	1634820 ✘	S002	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AN6X-H1141</b>	1634834	S005	0.75	-40...+100	IP68 / IP69K	VA	LCP	-	-	•

✘ = 优选型号

# 耐高压型电感式传感器

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
	<b>M30 x 1,5</b> 	10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	10...55 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	10...30 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	10...30 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	15, 	10...30 VDC	200 DC, (K)
	<b>M30 x 1,5</b> 	10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	10...30 VDC	200 DC, (K)
		10 bar <i>uprox</i> <sup>®</sup> + wash down	30, 	10...30 VDC	200 DC, (K)

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┌
<b>NI30U-EM30WD-VP44X-H1141</b>	1634904	S008	0.5	-30...+85	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-EM30WD-AP6X-H1141</b>	1634822 ✘	S002	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>NI30U-EM30WD-AN6X-H1141</b>	1634832	S005	0.5	-40...+100	IP68 / IP69K	VA	LCP	-	-	•
<b>BI15U-EM30WD-AP6X</b>	1634819 ✘	S001	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>BI15U-EM30WD-AN6X</b>	1634843	S004	0.75	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI30U-EM30WD-AP6X</b>	1634821 ✘	S001	0.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•
<b>NI30U-EM30WD-AN6X</b>	1634833	S004	0.5	-40...+100	IP68 / IP69K	VA	LCP	PP 2 m	-	•

✘ = 优选型号

## 选择型电感式传感器



选择型电感式传感器，型号为“NF”和“FE”，用于区分铁磁金属和非铁磁金属的应用。

“NF”仅用来检测非铁磁金属，“FE”仅用来检测铁磁金属。

“NF”和“FE”型传感器能很好地区分出原材料和工具，并能区分不同金属材质的原材料，例如区分合金或金属的轮圈



M12, M18及M30型由于具备了Duroplast的前端感应面,使其能适应于极端环境下的工作。“NF”选择型电感式传感器可提供M12、M18和M30圆柱型外壳以及典型的Compiprox®(40\*40mm)方形外壳。“FE”选择型电感式传感器可提供M12和M18圆柱形外壳。

“FE”选择型电感式传感器可提供M12和M18外壳形式。

- 不同金属的开关检测输出
- 紧凑型外壳
- “NF”对应非铁磁性金属的输出
- “FE”对应铁磁性金属的输出
- 不锈钢外壳
- 检测非铁磁性金属开关距离增大
- 优良的EMC特性



# 选择型电感式传感器

尺寸/外形	特性 (☞ 356)	额定工作 距离Sn [mm]	输出	工作电压	额定工作 电流Ie [mA]
	<b>CP40</b> 	选择型NF 20, 	 , PNP	10...65 VDC	200 DC, ☞
	选择型NF 20, 	 , NPN	10...65 VDC	200 DC, ☞	
	选择型NF 20, 	program.	20...250 VAC	400 AC	
	<b>M12 x 1</b> 	harsh 选择型NF 3, 	 , PNP	10...30 VDC	200 DC, ☞
		harsh 选择型NF 3, 	 , NPN	10...30 VDC	200 DC, ☞
	<b>M12 x 1</b> 	选择型FE 2.5, 	 , PNP	10...30 VDC	100 DC, ☞
	<b>M18 x 1</b> 	harsh 选择型NF 5, 	 , PNP	10...30 VDC	200 DC, ☞
		harsh 选择型NF 5, 	 , NPN	10...30 VDC	200 DC, ☞
	<b>M18 x 1</b> 	选择型FE 5, 	 , PNP	10...30 VDC	200 DC, ☞
	<b>M30 x 1,5</b> 	harsh 选择型NF 10, 	 , PNP	10...30 VDC	200 DC, ☞
		harsh 选择型NF 10, 	 , NPN	10...30 VDC	200 DC, ☞

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>NI20NF-CP40-VP4X2</b>	15684 ✕	S009	0.1	0...+60	IP67	PBT	PBT	-	•	•
<b>NI20NF-CP40-VN4X2</b>	15784 ✕	S012	0.1	0...+60	IP67	PBT	PBT	-	•	•
<b>NI20NF-CP40-FZ3X2</b>	13284 ✕	S016	0.02	0...+60	IP67	PBT	PBT	-	•	•
<b>BI3NF-EM12HE-AP6X2-H1141</b>	1615001 ✕	S002	3	0...+60	IP67	VA	DURO	-	•	•
<b>BI3NF-EM12HE-AN6X2-H1141</b>	1615003	S005	3	0...+60	IP67	VA	DURO	-	•	•
<b>BI2,5FE-EM12FE-AP6X-H1141</b>	1615011 ✕	S002	0.1	-25...+70	IP67	V2A (1.4301)	V2A (1.4301)	-	-	•
<b>BI5NF-EM18HE-AP6X2-H1141</b>	1615000 ✕	S002	2.5	0...+60	IP67	VA	DURO	-	•	•
<b>BI5NF-EM18HE-AN6X2-H1141</b>	1615004	S005	2.5	0...+60	IP67	VA	DURO	-	•	•
<b>BI5FE-M18FE-AP6X-H1141</b>	1615009	S002	0.025	0...+60	IP67	CuZn-OP	A2	-	-	•
<b>BI10NF-EM30HE-AP6X2-H1141</b>	1615002 ✕	S002	2	0...+60	IP67	VA	DURO	-	•	•
<b>BI10NF-EM30HE-AN6X2-H1141</b>	1615005	S005	2	0...+60	IP67	VA	DURO	-	•	•

✕ = 优选型号

## 转速监控型电感式传感器



优秀的系统性能，通过其简单的诊断减少了停机 and 提高了快速查错时间，符合当今工业上分散控制的概念。

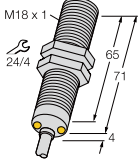









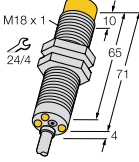





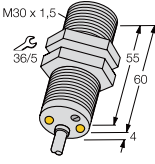





Turck公司为迎合这一市场的发展需要，开发出了uprox®系列产品；不仅具有AS-I接口，而且具有转速监控功能。在转速3000u/min范围内，通过对轴上金属物体或直接对齿轮的检测而使传感器产生的周期性阻尼来监控超速或低速状态。

通过起动延时，电位器可调的开关点和示教功能来确保正常运行：另外它不需再外接一个单独的过程装置。象计数器和继电器，因而节省了安装空间和单独的控制柜。新型转速监控型传感器具有导线输出，（M18，M30）外壳，齐平或非齐平式地安装，开关距离增大至20mm，具备uprox®产品所有特点，如抗磁场干扰，无衰减系数等。

- 紧凑型外壳M18×1或 M30×1
- 速度范围3-3000 min<sup>-1</sup>
- 起动延时(5S)避免起动阶断系统停机
- 通过电位器或示教方式开关点可调
- 具备uprox®产品特点
  - 对所有金属衰减系数恒为1
  - 抗磁场干扰
  - 检测范围增大
- IP67高防护等级
- 优良的EMC特性



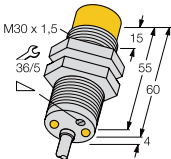



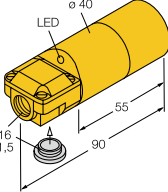





# 转速监控型电感式传感器

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]	
	<b>M18 x 1</b> 	调节: 电位器/ 速度范围: 3-3000U/min	5, 	—, PNP	10...65 VDC	200 DC, 
		调节: 示教/ 速度范围: 3-3000U/min	5, 	—, PNP	10...65 VDC	200 DC, 
		转速监控	5, 	—, PNP	10...65 VDC	200 DC, 
		转速监控	5, 	—, PNP	10...65 VDC	200 DC, 
	<b>M18 x 1</b> 	调节: 电位器/ 速度范围: 3-3000U/min	12, 	—, PNP	10...65 VDC	200 DC, 
		调节: 示教/ 速度范围: 3-3000U/min	12, 	—, PNP	10...65 VDC	200 DC, 
	<b>M30 x 1,5</b> 	调节: 电位器/ 速度范围: 3-3000U/min	10, 	—, PNP	10...65 VDC	200 DC, 
		调节: 示教/ 速度范围: 3-3000U/min	10, 	—, PNP	10...65 VDC	200 DC, 

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED ┘
<b>DBI5U-M18E-AP4X3</b>	1582236 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTBI5U-M18E-AP4X3</b>	1582237 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI5U-M18E-AP4X2 50/MIN</b>	1582239 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI5U-M18E-AP4X2 500/MIN</b>	1582229	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DNI12U-M18E-AP4X3</b>	1582235 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTNI12U-M18E-AP4X3</b>	1582234 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI10U-M30-AP4X2</b>	1582231 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTBI10U-M30-AP4X2</b>	1582230 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•

✕ = 优选型号

# 转速监控型电感式传感器

尺寸/外形	特性	额定工作距离Sn [mm]	输出	工作电压	额定工作电流Ie [mA]
 <p><b>M30 x 1,5</b></p> 	<p>调节： 示教/ 速度范围： 3-3000U/min</p> <p>调节： 电位器/ 速度范围： 3-3000U/min</p>	20, 	—, PNP	10...65 VDC	200 DC, 
 <p><b>Ø40</b></p>  <p>安装附件BS40</p>	<p>调节： 电位器/ 速度范围： 60-3000U/min</p>	15, 	—, PNP	10...65 VDC	200 DC, 
		30, 	—, PNP	10...65 VDC	200 DC, 

型号	订货号	连接方式 (☞ 322)	开关频率 [kHz]	温度范围 [°C]	防护等级	外壳 (☞ 334)	感应面 (☞ 334)	导线 (☞ 334)	LED U <sub>B</sub>	LED └┘
<b>DNI20U-M30-AP4X2</b>	1582233 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DTNI20U-M30-AP4X2</b>	1582232 ✕	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
<b>DBI15U-K40SR-AP4X2</b>	1500201	S058	-	-30...+85	IP67	ABS	ABS	-	•	•
<b>DNI30U-K40SR-AP4X2</b>	1500202	S058	-	-30...+85	IP67	ABS	ABS	-	•	•

✕ = 优选型号

## 安装附件



TURCK公司提供多系列附件便于安装且保护接近开关。

### 安装夹具和导轨

以下页中包括圆柱型接近开关的金属和塑料安装夹具，范围从picoprox系列直径4mm至47mm的开关系列。

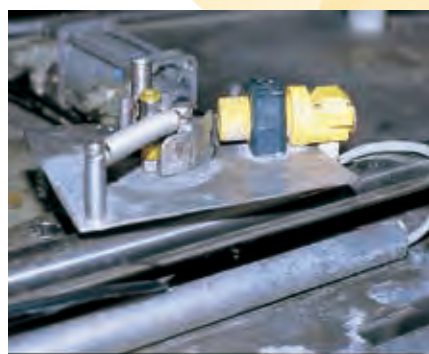
安装导轨JS 025/037简化了CP40stubby型接近开关的安装和调整。

### 防护外壳

防护外壳SG40提供了对物理损害和潮湿的特殊防护。用这种防护外壳将combiprox型接近开关密封从而增强了防护等级，从原来的IP67提高IP68。因此，这类接近开关可抵抗温度的变化，甚至暴露在潮湿的环境中。

### 特氟龙（PTFE）外盖

这类接近开关可应用于焊接区域，甚至抵抗飞溅火花的损害。特氟龙外盖或全特氟龙涂层的接近开关可提供所需的特殊保护。





配合M12/M18/M30圆柱螺纹抗飞溅火花损害的特氟龙外盖。



直径为4至8mm的小型传感器的安装夹具。



适用于光滑或圆柱螺纹直径从12至47mm的接近开关的安装夹具。



适合标准M12传感器的多功能接插件，可用于三种情况：

- 常开/常闭的PNP/NPN信号转换器
- 开/关延时
- 开关频率/转速监控



适合CP40 combiprox接近开关的防护外壳和安装导轨。



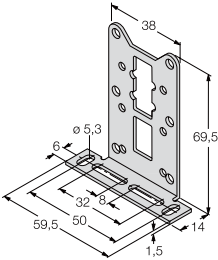
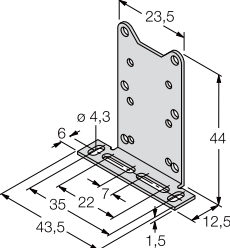
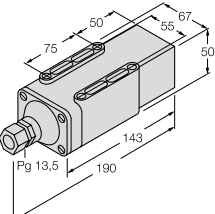


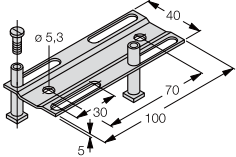
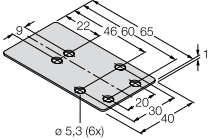
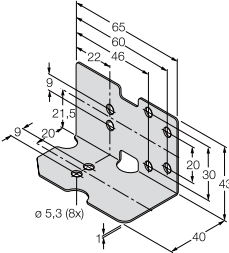
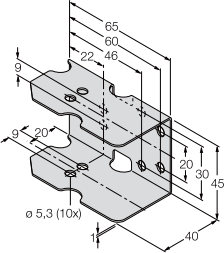
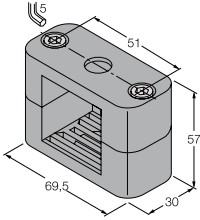
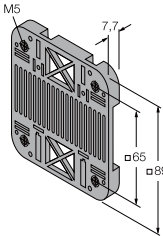
接近开关功能测试盒，可连接2, 3或4线接近开关或NAMUR开关。



圆柱式螺纹安装支架为传感器提供极高的安装自由度，因此传感器能够三维对准。

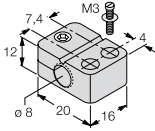
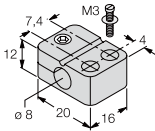
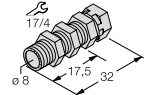
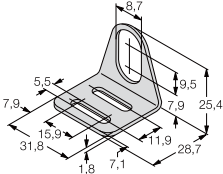
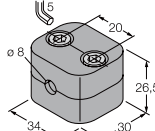

# 安装附件

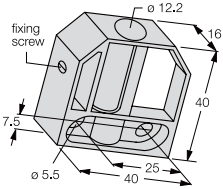
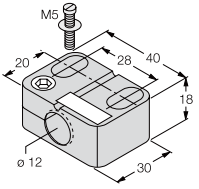
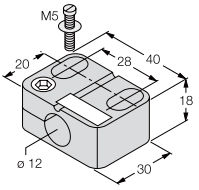
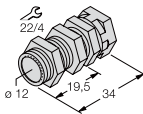
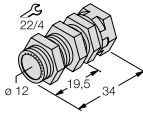
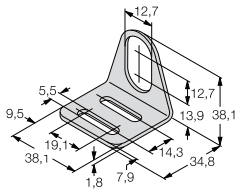
尺寸/外形	型号	订货号	材质 (标准 334)	适用传感器外形
 <p>Technical drawing of the MH-Q14 sensor head. It shows a cylindrical component with a diameter of <math>\phi 8.7</math>, a length of <math>6^{+0.2}</math>, and a mounting hole diameter of <math>\phi 4.3</math>.</p>	<b>MH-Q14</b>	6950011	CuZn	Q14
 <p>Technical drawing of the MH-Q20 sensor head. It shows a cylindrical component with a diameter of <math>\phi 10.7</math>, a length of <math>7^{+0.2}</math>, and a mounting hole diameter of <math>\phi 5.3</math>.</p>	<b>MH-Q20</b>	6950010	CuZn	Q20
 <p>Technical drawing of the MW-Q14/Q20 mounting plate. It shows a rectangular plate with dimensions: width 59.5, height 69.5, and a central cutout width of 38. Mounting holes are spaced 6 units apart. The plate has a thickness of 1.5.</p>	<b>MW-Q14/Q20</b>	6945006	VA	Q14/Q20
 <p>Technical drawing of the MW-Q08/Q10 mounting plate. It shows a rectangular plate with dimensions: width 43.5, height 44, and a central cutout width of 23.5. Mounting holes are spaced 6 units apart. The plate has a thickness of 1.5.</p>	<b>MW-Q08/Q10</b>	6945007	VA	Q08/Q10
 <p>Technical drawing of the SG40/2 sensor. It shows a rectangular sensor with dimensions: length 190, width 67, and height 60. The mounting hole diameter is <math>\phi 13.5</math>.</p>	<b>SG40/2</b>	69497	Ultem	CP40

尺寸/外形	型号	订货号	材质 (☞ 334)	适用传感器外形
	<b>JS025/037</b>	69429	VA	CP40
	<b>MF-CK40-1S</b>	6900481	VA	CK40
	<b>MF-CK40-2S</b>	6900482	VA	CK40
	<b>MF-CK40-3S</b>	6900483	VA	CK40
	<b>BSS-CP40</b>	6901318	PP	CP40
	<b>SMBDX80DIN</b>	3077161	ABS	CP80, DX80, K80, Q80

☞ = 优选型号

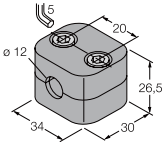
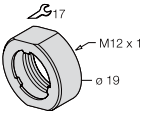

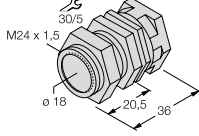
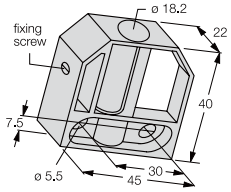
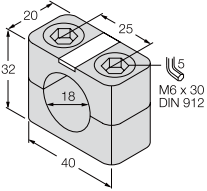
# 安装附件

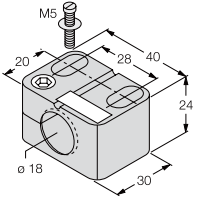
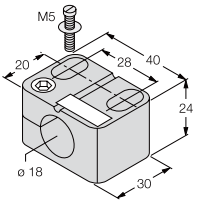
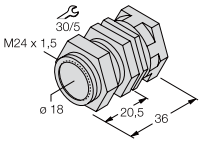
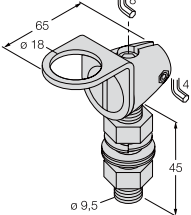
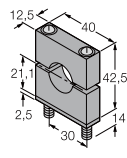
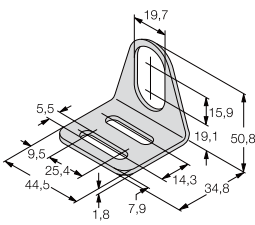
尺寸/外形	型号	订货号	材质 (参考 334)	适用传感器外形
	<b>BST-08B</b>	6947210	PA6	M8
	<b>BST-08N</b>	6947211	PA6	M8
	<b>QM-08</b>	6945100	CuZn	M8
	<b>MW-08</b>	6945008	VA	M8
	<b>BSS-08</b>	6901322	PP	M8
	<b>SKN/M12</b>	69662	PTFE	M12

尺寸/外形	型号	订货号	材质 (☞ 334)	适用传感器外形
	<b>BS12</b>	69470	PBT	M12
	<b>BST-12B</b>	6947212	PA6	M12
	<b>BST-12N</b>	6947213	PA6	M12
	<b>QM-12</b>	6945101	CuZn	M12
	<b>QMT-12</b>	6945106	CuZn	M12
	<b>MW-12</b>	6945003	VA	M12

x = 优选型号

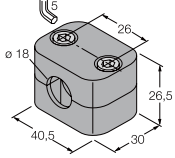
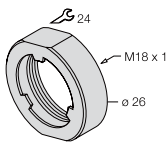
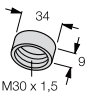
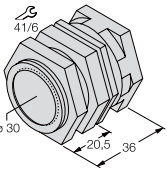
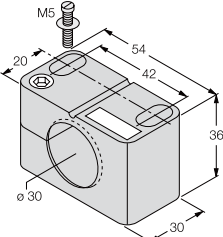
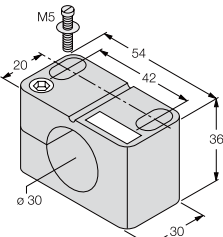
# 安装附件

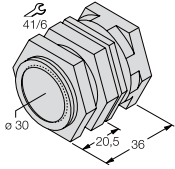
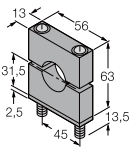
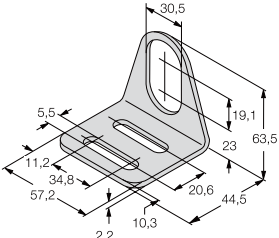
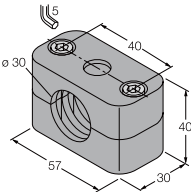
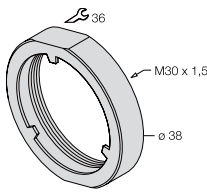
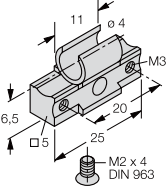
尺寸/外形	型号	订货号	材质 (注 334)	适用传感器外形
	<b>BSS-12</b>	6901321	PP	M12
	<b>PN-M12</b>	6905309	VA	M12
	<b>SKN/M18</b>	69663	PTFE	M18
	<b>QM-18</b>	6945102	CuZn	M18
	<b>BS18</b>	69471	PA6	M18
	<b>BSN18</b>	69472	PBT-GF20	M18

尺寸/外形	型号	订货号	材质 (☒ 334)	适用传感器外形
	<b>BST-18B</b>	6947214	PA6	M18
	<b>BST-18N</b>	6947215	PA6	M18
	<b>QMT-18</b>	6945104	CuZn	M18
	<b>SMB18FA</b>	3074004	VA	M18
	<b>SMB18C</b>	3032635	Polyester	M18
	<b>MW-18</b>	6945004	VA	M18

☒ = 优选型号

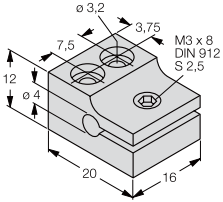
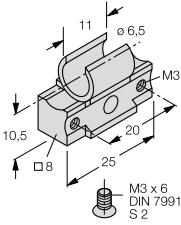
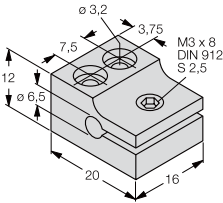
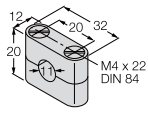
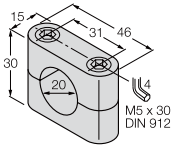
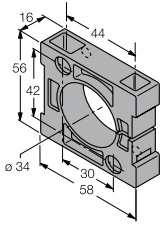
# 安装附件

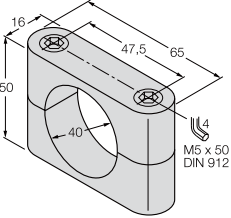
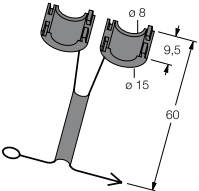
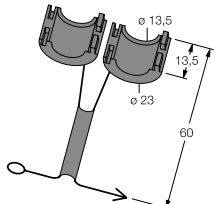
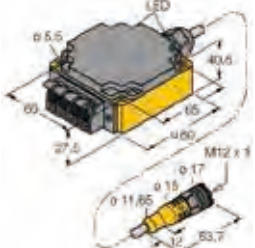
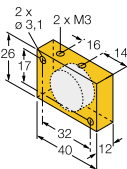
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	<b>BSS-18</b>	6901320	PP	M18
	<b>PN-M18</b>	6905310	VA	M18
	<b>SKN/M30</b>	69664	PTFE	M30
	<b>QM-30</b>	6945103	CuZn	M30
	<b>BST-30B</b>	6947216	PA	M30
	<b>BST-30N</b>	6947217	PA	M30

尺寸/外形	型号	订货号	材质 (EN 334)	适用传感器外形
	<b>QMT-30</b>	6945105	CuZn	M30
	<b>SMB30C</b>	3032636	Polyester	M30
	<b>MW-30</b>	6945005	VA	M30
	<b>BSS-30</b>	6901319	PP	M30
	<b>PN-M30</b>	6905308	VA	M30
	<b>BS540</b>	69475	AL	4mm圆柱

x = 优选型号

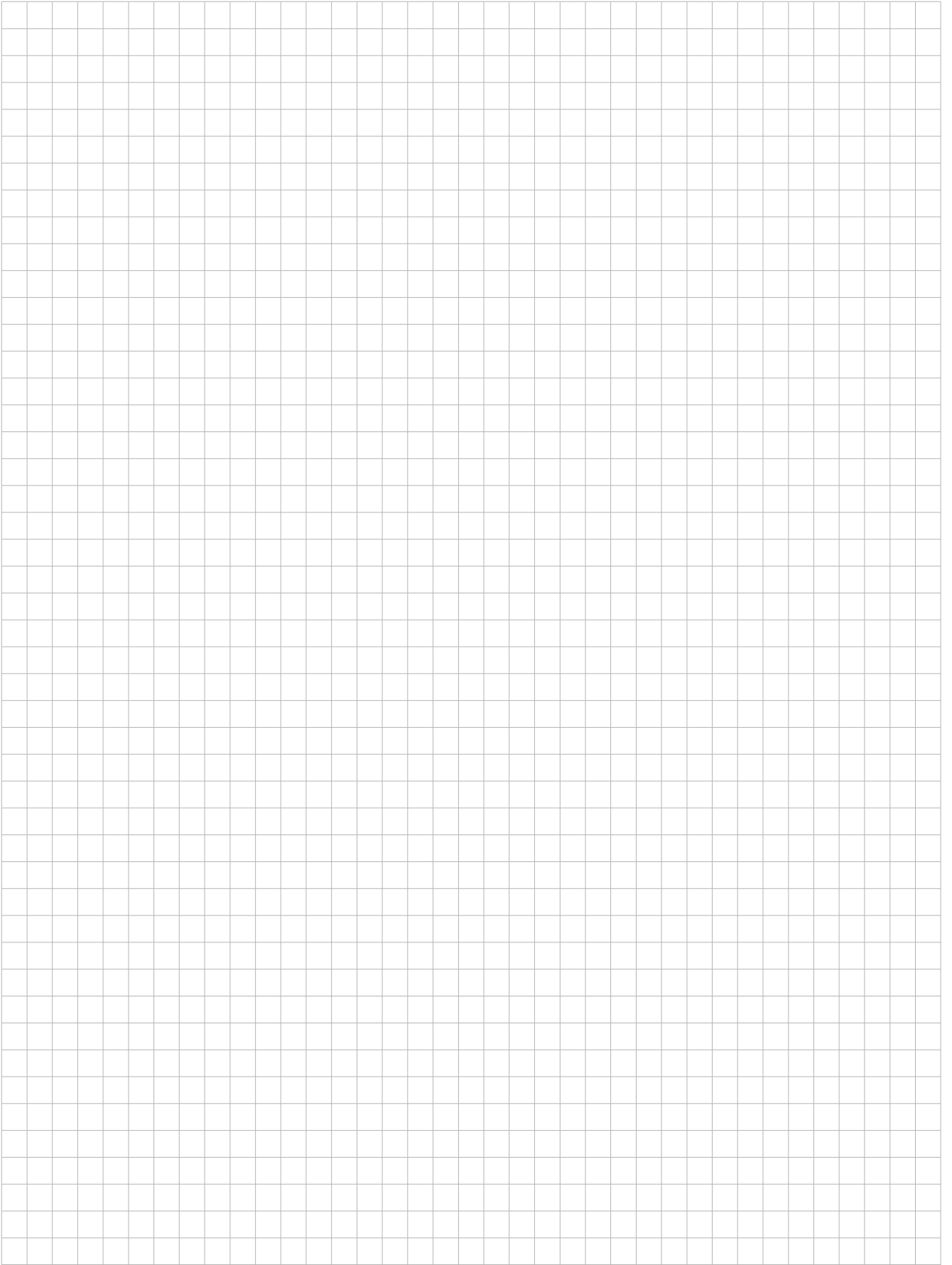
# 安装附件

尺寸/外形	型号	订货号	材质 (参考 334)	适用传感器外形
	<b>MBS40</b>	69477	AL	4mm圆柱
	<b>BS865</b>	69476	AL	6.5mm圆柱
	<b>MBS65</b>	69478	AL	6.5mm圆柱
	<b>BS11</b>	69462	PBT	11mm圆柱
	<b>BS20</b>	69464	PBT	20mm圆柱
	<b>BS34,1</b>	6946010	PBT	34mm圆柱

尺寸/外形	型号	订货号	材质 (☑ 334)	适用传感器外形
	<b>BS40</b>	69466	PBT	40mm圆柱
	<b>SC-M8/3GD</b>	6900515	PA	M8*1
	<b>SC-M12/3GD</b>	6900390	PA	M12*1
	<b>TB3-CP80</b>	6967112	-	传感器测试盒
	<b>DM-Q12</b>	6900367	PBT	适用于磁性模拟量传感器

# 安装附件

尺寸/外形	型号	订货号	材质 (参考 334)	适用传感器外形
	<b>DMR31-15-5</b>	6900215	SrFe	磁性传感器
	<b>DMR20-10-4</b>	6900214	SrFe	磁性传感器
	<b>DMR15-6-3</b>	6900216	SrFe	磁性传感器
	<b>SPF1-AP6X</b>	6900375	PBTP	转速监控传感器 M12*1
	<b>SPN1-AP6-ARN6X</b>	6930231	PBTP	PNP/NPN转化 M12*1
	<b>SPT1-AP6X</b>	6915091	PBTP	ON/OFF延迟 M12*1



# 接插件


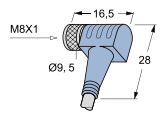
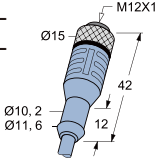
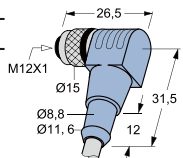

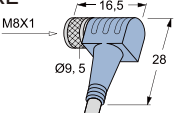

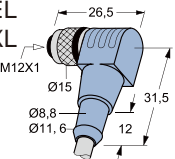
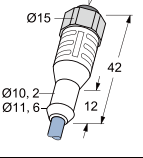
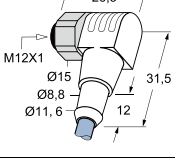
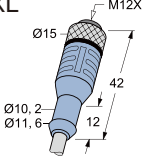
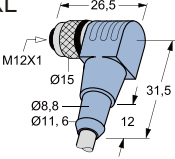
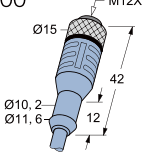
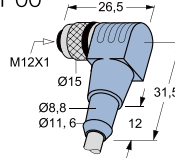


**接插件 — 选型指南**  
 我们的产品包含了丰富的具有预置导线型，延长导线型及插头等适配于各种传感器的接插件产品。

详细的接插件说明在我们的接插件样本中

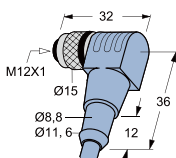
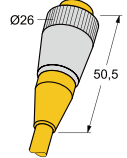
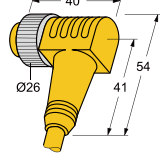


下表是具有预置导线型号的接插件的目录。

传感器类型:		适配接插件	
连接型号	接插件型号	直线型	弯角型
...-AP4, ...-AP6, ...-AP7, ...-AN4, ...-AN6, ...-AN7, ...-ASI	...-V1131 ...-V1331	PKG3M-*/TEL <sup>1)</sup> PKG3M-*/TXL  <b>M8</b>	PKW3M-*/TEL PKW3M-*/TXL  <b>M8</b>
...-AP4, ...-AP6, ...-AP7, ...-AN4, ...-AN6, ...-AN7, ...-ASI	...-H1141 ...-H1341	RKC4T-*/TEL RKC4T-*/TXL  <b>M12</b>	WKC4T-*/TEL WKC4T-*/TXL  <b>M12</b>
...-2AP4, ...-2AP6, ...-VP6, ...-VP7, ...-VN6, ...-VN7, ...-LIU, ...-LUAP6X	...-V1141 ...-V1341	PKG4M-*/TEL PKG4M-*/TXL  <b>M8</b>	PKW4M-*/TEL PKW4M-*/TXL  <b>M8</b>
...-2AP4, ...-2AP6, ...-VP4, ...-VP6, ...-VP7, ...-VN4, ...-VN6, ...-VN7, ...-LIU, ...-LUAP6X	...-H1141 ...-H1341	RKC4.4T-*/TEL RKC4.4T-*/TXL  <b>M12</b>	WKC4.4T-*/TEL WKC4.4T-*/TXL  <b>M12</b>
...-EM, ...WD...AP6, ...-EM, ...WD...AN6	...-H1141	FB-WAK4-L/S2300 <sup>1)</sup>  <b>M12</b>	FB-WWAK4-L/S2300 <sup>1)</sup>  <b>M12</b>
...-MT...AP6, ...-MT...AN6	...-H1141	RKC4.4T-*/TXL  <b>M12</b>	WKC4.4T-*/TXL  <b>M12</b>
...-Y0, ...-Y1	...-H1141 ...-H1341	WAK4.21-*/P00 导线颜色: 蓝  <b>M12</b>	WWAK4.21-*/P00 导线颜色: 蓝  <b>M12</b>

除了标准的导线型接插件选型指南还包括其他类型的连接器。



传感器类型:		适配接插件	
连接型号	接插件型号	直线型	弯角型
...-2Y0, ...-2Y1	...-H1140	WAK4.41-2/P00 Cable: blue  <b>M12</b>	
...-AD4, ...-AG4 ...-AG41	...-H1141 ...-H1341	WAK4.2-2/P00  <b>M12</b>	WWAK4.2-2/P00  <b>M12</b>
DNet	...-H1150	RCK572-6M <sup>2)</sup>  <b>M12</b>	WCK572-6M <sup>2)</sup>  <b>M12</b>
...-AZ3, ...-ADZ3	...-B3131 ...-B3331		WKB3T-2/S68  <b>1/2"</b>
...-AZ3, ...-ADZ3	...-B1331 ...-B1131	RK30-2  <b>7/8"</b>	
...-2ADZ3	...-B1151	WAK50-2/P00  <b>7/8"</b>	WAK50-2/P00  <b>7/8"</b>

1) \*: 选择电缆长度(标准长度外可按客户需要定制)

**2** = 2 m   **5** = 5 m   **10** = 10 m

.../TEL, .../TXL: 导线材质:

**TEL** = PVC-(可替代原P00电缆)

**TXL** = PUR(可替代原S90,XOR,S74,S366,S398,S370等各种电缆)

2) DeviceNet™ 导线, PVC 外皮

2 x 2 x 22 AWG, 标准长度

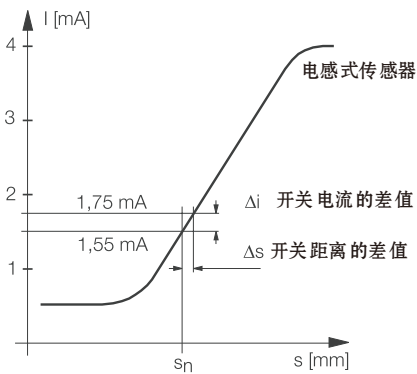
6 m, 其它长度可订制

## NAMUR本安型传感器按EN 60947-5-6 标准 ( 以前标准 EN 50227 )

NAMUR 传感器按 EN 60947-5-6 标准，是带极性的两线开关（恒定的距离/电流特性曲线），它的内电阻随目标的远近而变化，这种开关必须和外部的放大器相连接使用，这些放大器把电流变化量转换成二进制输出信号。

### 优点

- 连接允许的开关放大器可用于危险易爆区域
- 可选择的永久性断线和短路检测



### 环境条件

- 防护级别
- (IEC 60529/EN 600529) IP67  
污染级别 3
- 抗冲击  $30 \times g$  (11 ms)
- 抗震动 55 Hz (1 mm)

### 应用于危险区域

具有符合EN 60947-5-6 标准 (NAMUR) 输出的传感器必须与适配的具有NAMUR控制回路的开关放大器相连应用于危险区域。

TURCK公司提供了宽范围的开关放大器认证，有interfacemodul, multimodul, multisafe®和multicart®系列。

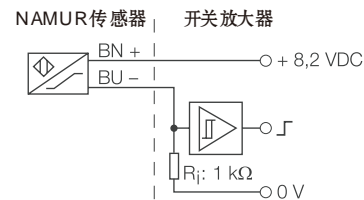
### 额定工作值

- 额定工作值按EN 60947-5-6 标准定义为：

$$U_0 = 8,2 \text{ VDC} \quad I_{\text{activated}} \leq 1,2 \text{ mA}$$

$$R_i = 1000 \Omega \quad I_{\text{non-activated}} \geq 2,1 \text{ mA}$$

- 将TURCK本安型 NAMUR传感器准确地规范在“NAMUR 窗口”中，即  $s_n$  对应  $1.55 \text{ mA}$ ， $s_n + \Delta s$  对应  $1.75 \text{ mA}$  处（见曲线图）
- 反极性保护
- 滞后  $H1 \dots 10 \%$
- 温度漂移
- $< \pm 10 \%$  (通常温度范围  $-20 \dots +70^\circ\text{C}$ )
- $< \pm 20 \%$  (扩展温度范围  $-40 / -25 \dots +100 / 120^\circ\text{C}$ )
- 重复精度  $R < 2 \%$

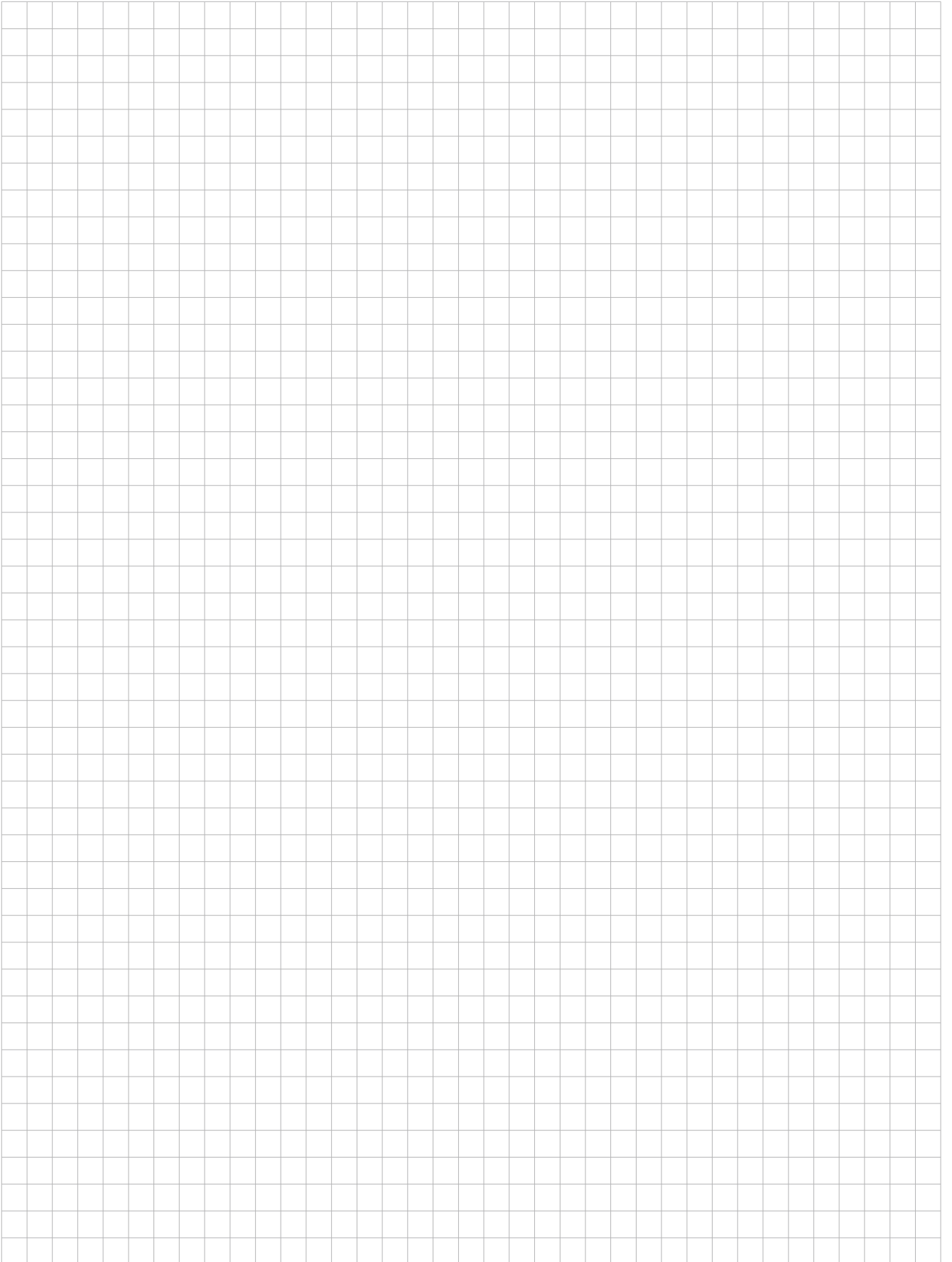


- 供电和输出通过外部开关放大器实现
- 代码: ...-Y1-...
- 级别 EEx ia IIC T4...T6

(用于危险防暴区域的认证；按照欧洲EN50020和EN50014的CE认证；94/9/EG, KEMA 02 ATEX1090X) 认证；使用CA40, CK40, CP40, CP80, DSU26, DSU35, K40, K90, MP, Q80等型号的传感器时，要避免静电荷。

- 安装要遵守认证标准和使用手册。

NAMUR传感器串/并联在TURCK开关放大器上不允许NAMUR传感器串/并联。



# 通用数据—电感式传感器

## 三/四线直流晶体管输出传感器

### 优点

- 极低的漏电流
- 易于连接继电器和PLC
- 能进行串/并联
- 工作电压  $U_B$  10...30 VDC
- 10...55 VDC 或 10...65 VDC
- 余波  $W_{ss}$  10 %

### 开关输出

- 通常三线制传感器用常开输出
- 四线制传感器是互补性输出
- 循环型短路保护  
(过载脱扣  $> I_e + 20$  mA)
- 短线保护
- 完全型反极性保护
- 关状态电流  $I_r < 0.1$  mA

- 电压降  $U_d < 1.8$  V
- Si...K08/K10:  $< 0.7$  V
- Bi/Ni.../S34:  $< 2.5$  V
- 滞后H: 3...15 %
- 温度漂移
- $< \pm 10$  % (通常温度范围
- 25...+70 °C)
- $< \pm 15$  %  $u_{prox}^{\oplus}$  和  $u_{prox}^{\ominus}$
- (温度范围
- 30...+85°C)

- $< \pm 20$  % (扩展温度范围
- 40/-25...+100/120 °C)
- 重复精度:  $R < 2$  %
- Bi0,8-Q5SE-AP/AN...  $< 5$  %
- 应用范畴 13
- 额定绝缘电压  $U_i$  0.5 kV
- 额定有限制的短路电流 100A

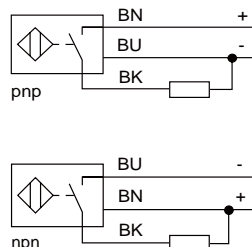
### 环境条件

- 防护级别(IEC 60529/EN 60529)
- IP67/IP68/IP69K (见技术参数)
- 污染级别 3
- 抗冲击  $30 \times g$  (11 ms)
- 抗震动 55 Hz (1 mm)
- 增大检测范围
- BI8U-MT18-AP6X  $< \pm 15$  %
- (常温范围: -10—+60°C)

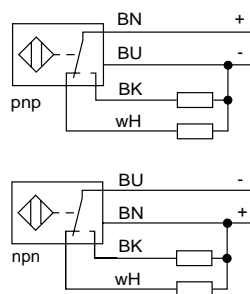
### 串联或并联

- 当串联时, 每个传感器的电压降和时间延时必须相加

### 3-线 DC

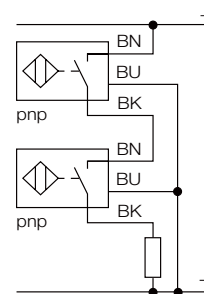


### 4-线 DC



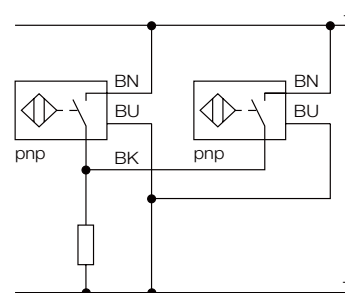
### 3-线 DC

#### 串联



### 3-线 DC

#### 并联



## 两线直流晶体管输出传感器

### 优点

- 只有两根线
- 短路保护

### 供电

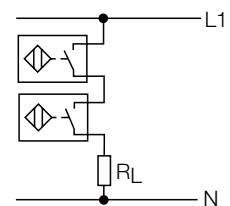
- 工作电压  $U_B$  10...65 VDC
- 余波  $U_{ss}$  10 %

### 开关性能

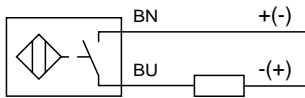
- 常开(N.O.)
- 循环型短路保护 (过载脱扣  $> I_e + 20$  mA)
- 反极性保护
- 漏电流  $I_r \leq 0.6$  mA
- 电压降  $U_d$
- 无极性(AD)  $< 5$  V
- 有极性(AG)  $< 4.2$  V
- 滞后  $H \leq 3...15$  %
- 温度漂移  $\leq \pm 10$  %

- 重复精度  $R < 2$  %
  - 应用范畴 13
  - 额定绝缘电压  $U_i = 0.5$  kV
  - 额定有限制的短路电流 100A
- 环境条件
- 防护级别(IEC 60529/EN 60529) IP67
  - 污染级别 3
  - 抗震动 55 Hz (1 mm)

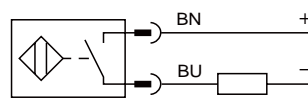
### 2-wire 串联



### 2-wire DC (无极性)



### 2-线 DC (有极性)



### 供电单元

所有支流装置必须接供电单元，配置一个符合IEC 364标准的变压器（隔离变压器）。万一变压器隔离失效电子元件的绝缘外壳使它免受损害。

# 通用数据—电感式传感器

## 两线交/直流传感器

### 优点

- 只有两根线
- 能接交直流电压
- 短路保护 (型号ADZ, RDZ, FDZ)

### 供电

- 工作电压  $U_B$  20...250 VAC 或 10...300 VDC

### 例外:

- 仅为交流供电型  
Ni20NF-CP40-FZ3X2  
Bi/Ni...AZ3X/S120

### 开关性能

- 常开(N.O.)  
代码: ...ADZ/AZ
- 常闭(N.C.)订制  
代码: ...RDZ/RZ
- 常开(N.O.)和常闭(N.C.)

### 可编程连接

代码: ...FDZ/FZ

- 漏电流

$I_r \leq 1.7 \text{ mA (AC)} \leq 1.5 \text{ mA (DC)}$

- 短路保护

类型 ADZ, RDZ, FDZ

浪涌电流  $\leq 8 \text{ A} (\leq 5 \text{ ms max. } 5 \text{ Hz})$

过载脱扣  $> 500 \text{ mA}$

- 电压降  $U_d < 6 V_{eff}$
- 滞后  $H$  3...15 %
- 温度漂移

$< \pm 10 \%$  (标准温度等级 -25...+70 °C)

$< \pm 20 \%$  (扩展温度等级 -40/-25...+100/120 °C)

- 重复精度  $R < 2 \%$
- 应用范畴 AC 140/DC 13
- 额定绝缘电压  $U_i = 1.5 \text{ kV}$
- 额定有限制的短路电流 100A
- 环境温度增益  $> 40 \text{ °C}$  时开关电流被抑制

### 环境条件

防护级别 (IEC 60529/EN 60529) IP67

污染级别 3

抗冲击  $30 \times g$  (11 ms)

抗震动 55 Hz (1 mm)

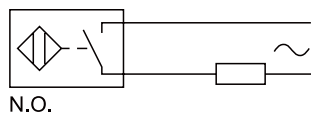
### 两线交直流传感器的串联

常开: AND-与逻辑

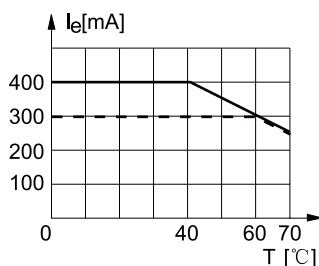
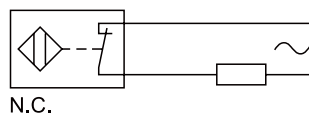
常闭: NOR-或非逻辑

当串联时, 每个传感器的电压降必须相加, 它降低了在负载上可利用的电压, 注意不能低于负载上的最小工作电压 (请注意电网电压的波动)

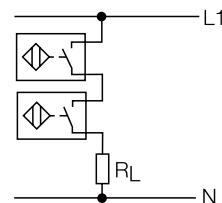
### 2-线 AC/DC, N.O.



### 2-线 AC/DC, N.C.



### 2-线 AC/DC传感器的串联



## 两线交/直流传感器

### 机械开关与交/直流传感器串联

断开的触点中断了传感器的电源电压，如果当机械触点闭合时传感器被阻尼，则会产生一个短暂的延时。在传感器有效前的延时( $t \leq 80 \text{ ms}$ )会防止突然地动作。

#### 建议:

将一个电阻并联在机械触点上(当触点断开时也是一样)，此电阻能够避免延时的产生。对于200V交流，此电阻大约为82k $\Omega$ /1 W

电阻的近似值约. 400  $\Omega$ /V

### 机械开关与交/直流传感器并联

闭合的触点使传感器的工作电压短路，当触点断开之后，只有在准备延时时间( $t \leq 80 \text{ ms}$ )之后传感器才处于工作状态。

#### 建议:

触点上串联一个电阻，可以可靠地保证了传感器的最小工作电压，因此避免了在机械触点断开之后的准备延时时间。

#### 电阻的计算公式:

$$R = 10 \text{ V} / I_{\text{Load}}$$

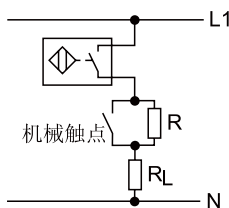
$$P = I_{\text{Load}}^2 \times R$$

$$R = 10 \text{ V} / I_{\text{Load}}$$

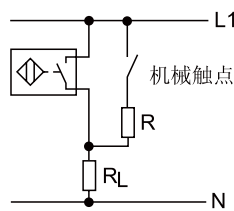
$$P = I_{\text{Load}}^2$$

$$\text{Load} \times R$$

与机械开关串联



与机械开关并联



# 通用数据—电感式传感器

## 线性模拟量输出电感式传感器

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### 优点

- 线性曲线
- 微型安装的扩展检测距离及非线性输出
- 多样化输出：  
电流，电压，频率，  
可调开关量

### 电源

- 工作电压UB 15...30 VDC
- 余波W<sub>ss</sub> 10 %

### 环境条件

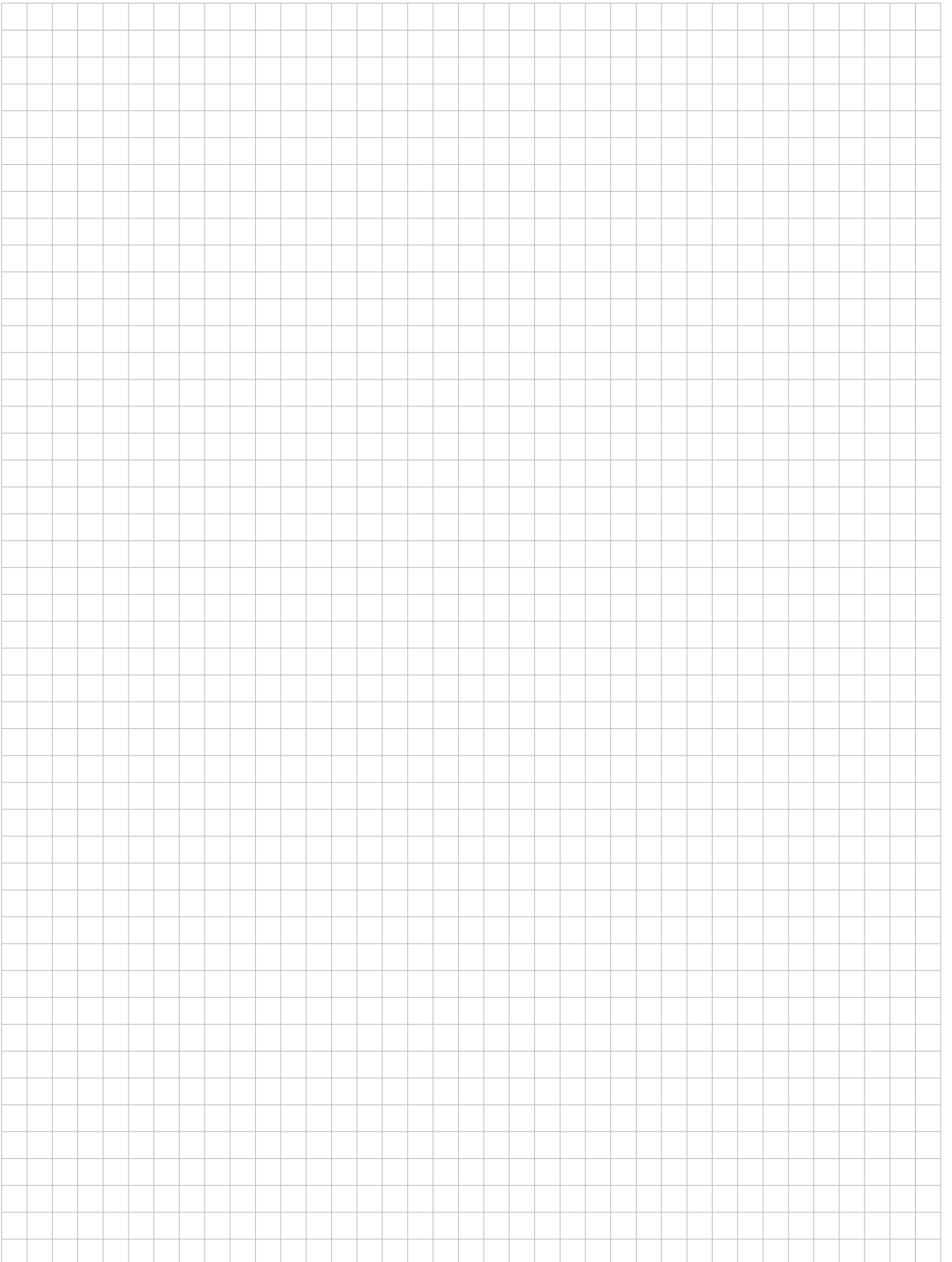
- 防护级别(IEC 60529/EN 60529) IP67
- 污染级别3
- 抗冲击30 × g (11 ms)
- 抗震动55 Hz (1 mm)

### 通用数据

- 重复精度R < 1 %  
升温30分钟后R < 0,5 %
- 温漂≤ 0.06 % / °C
- 应用范畴13
- 额定绝缘电压U<sub>i</sub> = 0.5 kV  
额定有限制的短路电流100A

### 负载

- 电流输出 < 0.4 kΩ
- 电压输出 < 4.7 kΩ
- 频率输出 < 1 kΩ

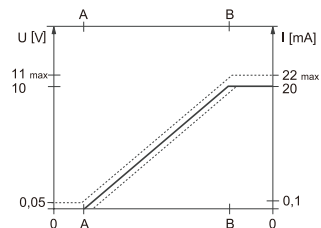
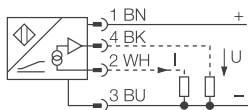


# 通用数据—电感式传感器

## 线性模拟量输出电感式传感器—输出类型

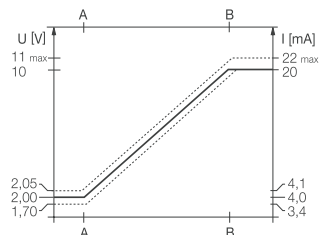
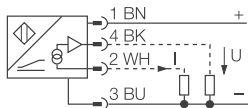
...LIU...

- 电流和电压
- 0...20mA+0...10V



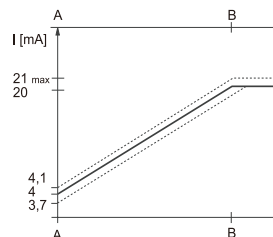
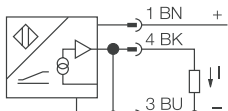
...LIU2...

- 电流和电压
- 4...20 mA + 2...10 V



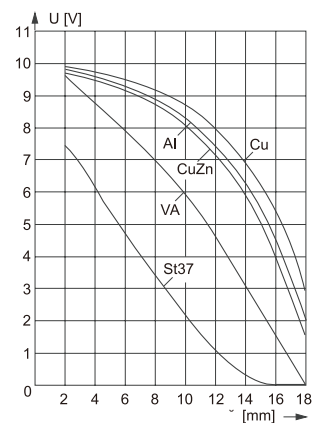
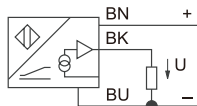
...LI2...

- 电流
- 4...20 mA



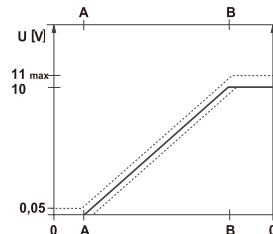
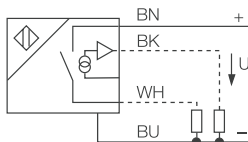
...LU...

- 电压
- 0...10V
- 环形开关灵敏度曲线图  
型号 Bi20R-Q14-LU



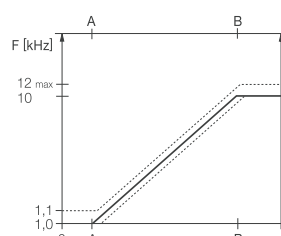
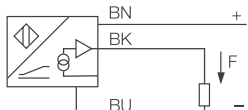
...LUAP6X...

- ...电压和开关量输出
- 0...10 V + pnp



...LF...

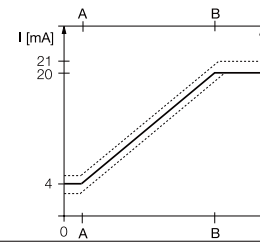
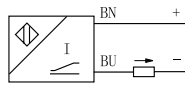
- 频率
- 1...10KHZ



线性模拟量输出电感式传感器-输出类型

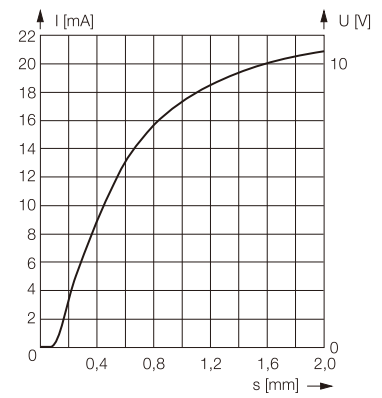
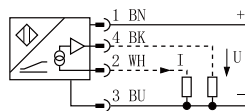
**...Li-Exi...**

电流输出  
4...20 mA



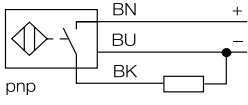
**...SiU...**

电流和电压  
0...20 mA + 0...10 V

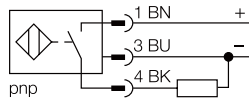


# 电感式传感器—接线图

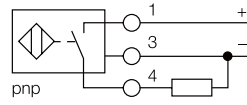
( S001 )



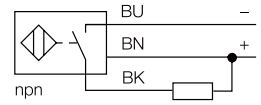
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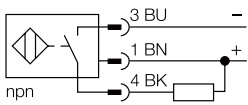
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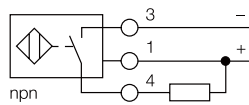
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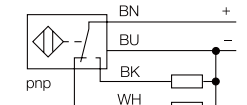
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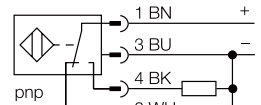
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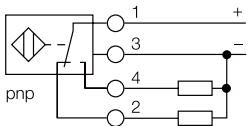
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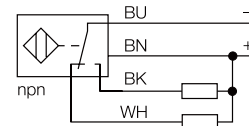
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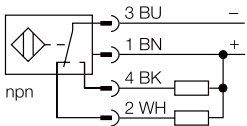
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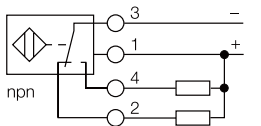
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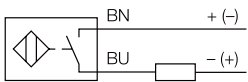
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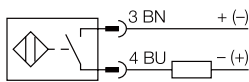
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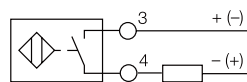
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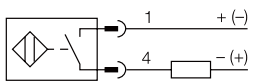
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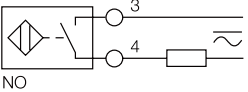
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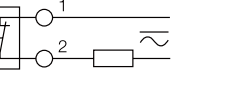
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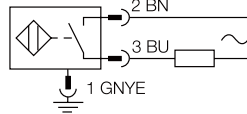
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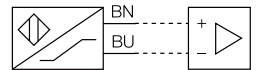
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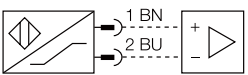
( S019 )



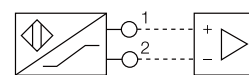
( S025 )



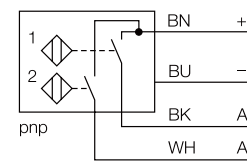
( S026 )



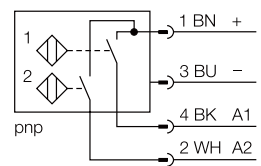
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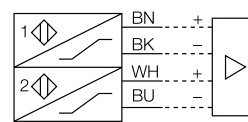
( S028 )



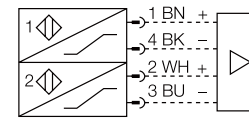
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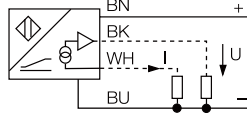
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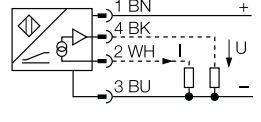
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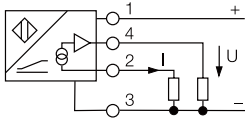
( S033 )



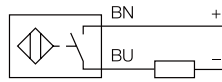
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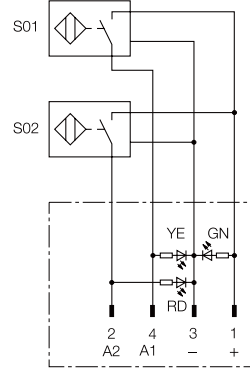
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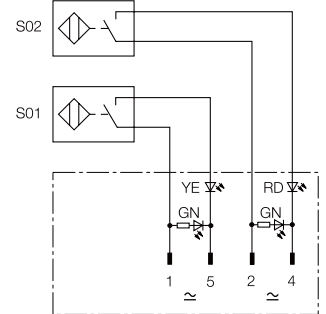
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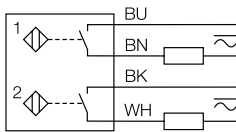
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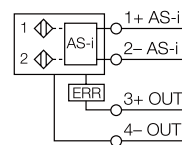
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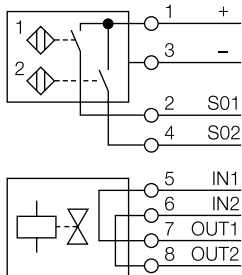
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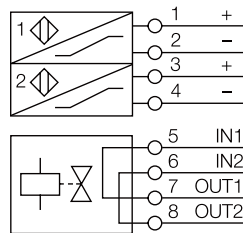
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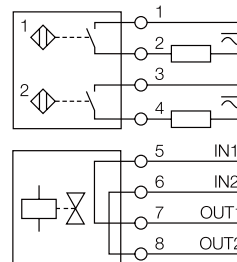
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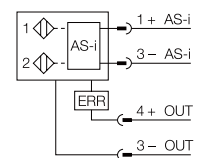
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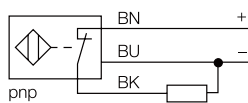
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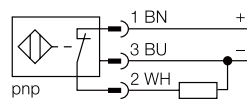
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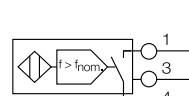
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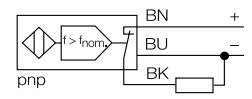
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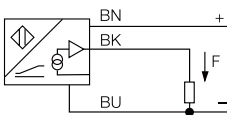
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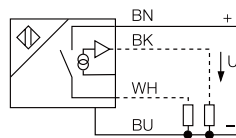
(S059)



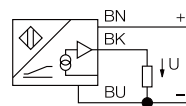
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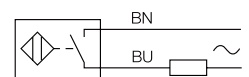
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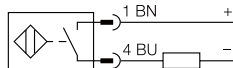
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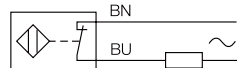
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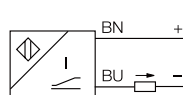
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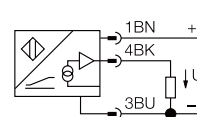
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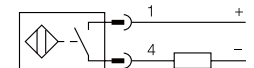
(S097)



(S098)

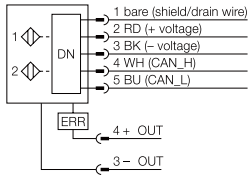


(S100)

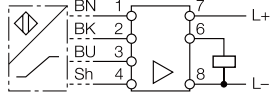


# 电感式传感器—接线图

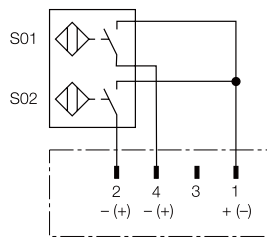
(S131)



(S133)



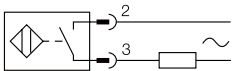
(S135)



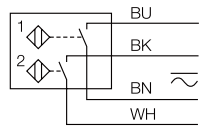
## 颜色代码

Farbe	颜色	代码
schwarz	黑	BK
braun	棕	BN
rot	红	RD
orange	橙	OG
gelb	黄	YE
grün	绿	GN
blau	兰	BU
violett	紫	VT
grau	灰	GY
weiß	白	WH
rosa	粉	PK
grün-gelb	绿-黄	GNYE

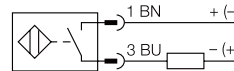
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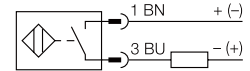
(S153)



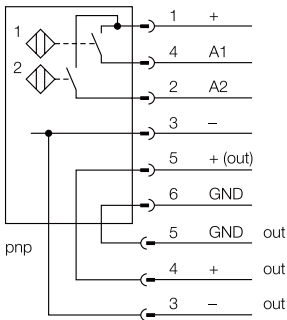
(S154)



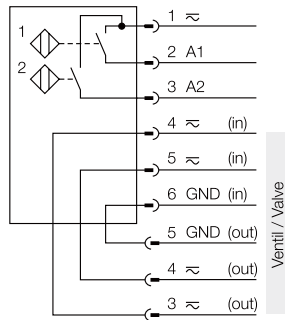
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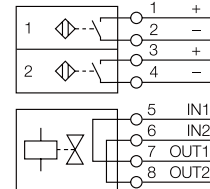
(S168)



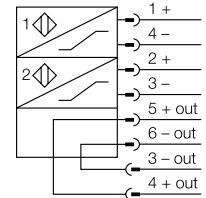
(S169)



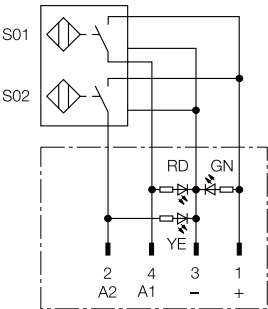
(S170)



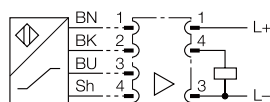
(S171)



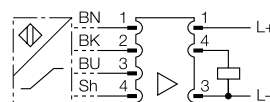
(S172)



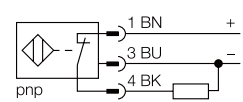
(S173)



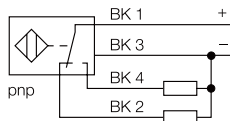
(S174)



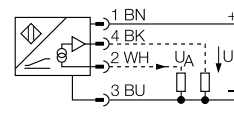
(S175)

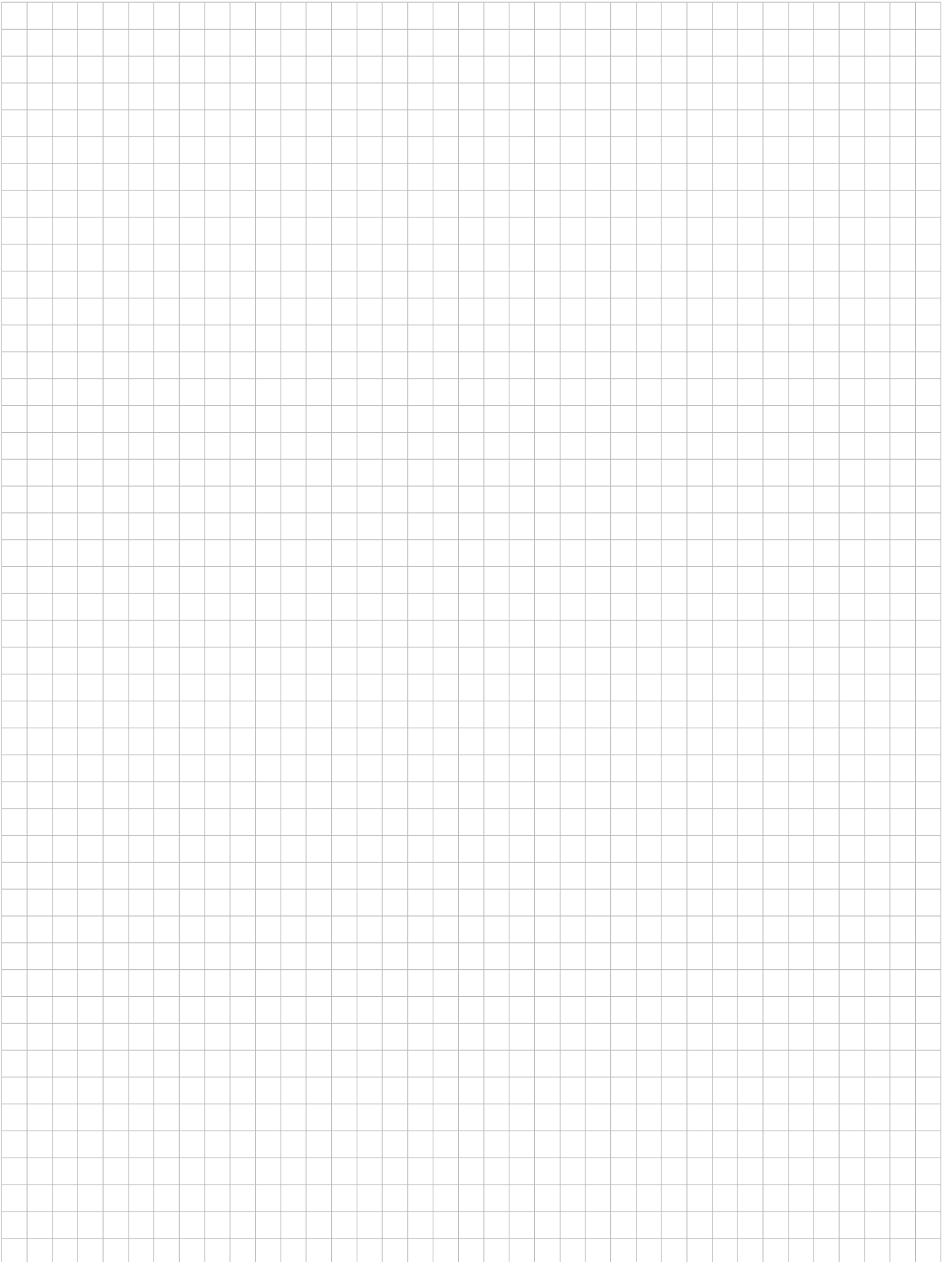


(S176)



(S177)

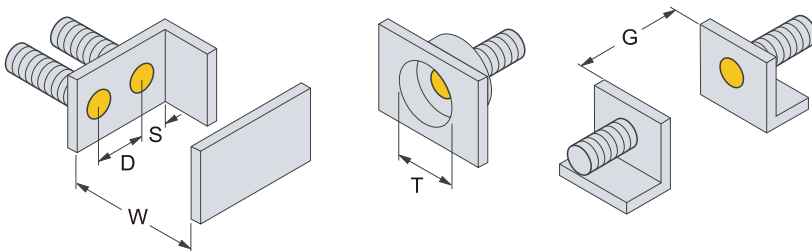




# 电感式传感器—安装指南

## 圆柱型外壳-安装在金属中的最小距离<sup>1)</sup>

- 齐平式安装

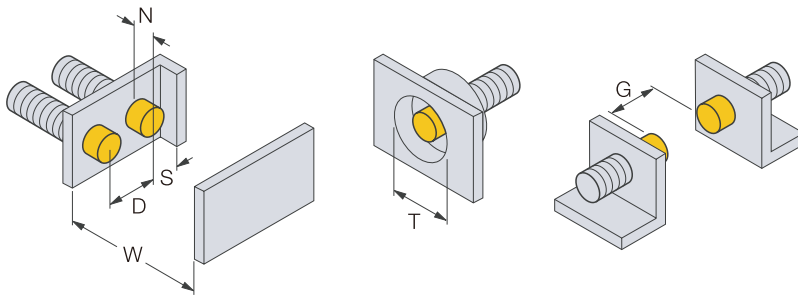


传感器类型	传感器直径	D	S	W	T	G
Bi 1	4	8	6	3	12	6
Bi 1	5	10	8	3	15	6
Bi 1,5 U	6,5	13	10	5	20	9
Bi 1,5	6,5	13	10	5	20	9
Bi 2	6,5	13	10	6	20	12
Bi 1,5 U	8	16	12	5	24	9
Bi 1,5	8	16	12	5	24	9
Bi 2	8	16	12	6	24	12
Bi 2	11	22	17	6	33	12
Bi 2	12	24	18	6	36	12
Bi 3 U	12	24	18	9	36	18
Bi 3	12	24	18	9	36	18
Bi 4	12	24	18	12	36	24
Bi 5 U	18	36	27	15	54	30
Bi 5	18	36	27	15	54	30
Bi 7	18	36	27	21	54	42
Bi 8 U	18	36	27	24	54	48
Bi 8	18	36	27	24	54	48
Bi 10 U	30	60	45	30	90	60
Bi 10	30	60	45	30	90	60
Bi 12	30	60	45	36	90	72
Bi 15	30	60	45	45	90	90
Bi 20	47	94	71	60	141	120
Bi 25	47	94	71	75	141	150

1) 单位为mm

方型外壳-安装在金属中的最小距离<sup>1)</sup>

- 非齐平式安装/部分嵌入式



传感器类型	传感器直径	D	S	W	T	G	N
Ni 3	6,5	20	10	9	20	18	6
Ni 3	8	24	12	9	24	18	6
Ni 4 U	8	24	12	12	24	24	8
Ni 4	8	24	12	12	24	24	8
Ni 5	11	33	17	15	33	30	10
Ni 4	12	36	18	12	36	24	8
Ni 5	12	36	18	15	36	30	10
Ni 8 U	12	36	18	24	36	48	16
Ni 8	12	36	18	24	36	48	16
Ni 8	18	54	27	24	54	48	16
Ni 10	18	54	27	30	54	60	20
Ni 12 U	18	54	27	36	54	72	20
Ni 14	18	54	27	42	54	84	20
Ni 10	20	60	30	30	60	60	20
Ni 15	30	90	45	45	90	90	20
Ni 20 U	30	90	45	60	90	120	25
Ni 20	30	90	45	60	90	120	20
Ni 20	40	120	60	60	120	120	40
Ni 30	40	120	60	90	120	180	40
Ni 25	47	141	71	75	141	150	40
Ni 40	47	141	71	120	141	240	40

1) 单位为mm

2) 仅直流型

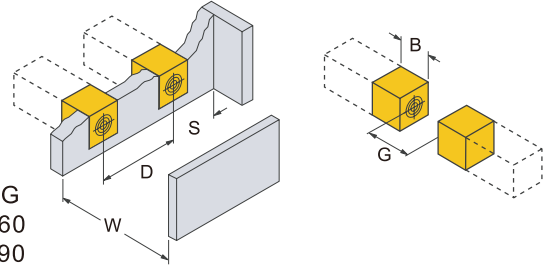
# 电感式传感器—安装指南

方型外壳-安装在金属中的最小距离<sup>1)</sup>

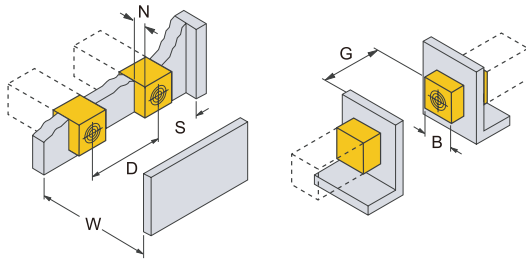
外壳类型CA25 (25×25mm) , CA40/CK40/CP40 (40×40mm)

• 齐平式安装

外壳类型	传感器型号	B	D	S	W	G
CA25	Bi10 U	25	50	25	30	60
CP40/CK40	Bi15 U	40	80	40	45	90
CP40/CK40	Bi15	40	80	40	45	90
CP40/CK40/CA40	Bi20 U	40	80	40	60	120
CP40	Bi20	40	80	40	60	120
CP40/CK40	Bi30 U	40	80	40	90	180

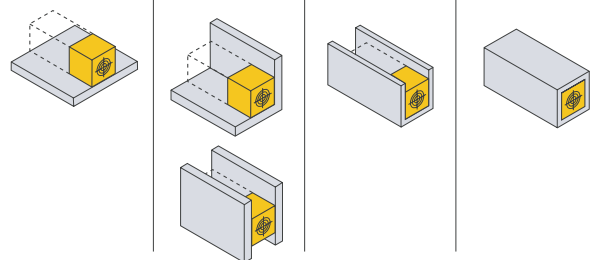


• 非齐平式安装/部分嵌入式



部分嵌入式时，实际开关距离 $S_r$ :

外壳类型	传感器型号	B	D	S	W	G	N	1侧	2侧	3侧	4侧
CA25	Ni 15 U	25	75	38	45	90	25				
CP/CK40	Ni 20	40	120	60	60	120	20	$S_r = 22 \text{ mm}^2$	$S_r = 20 \text{ mm}^2$	$S_r = 17 \text{ mm}^2$	$S_r = 13 \text{ mm}^2$
CP/CK40	Ni 25 U	40	240	60	75	150	30	$S_r = 28 \text{ mm}^2$	$S_r = 24 \text{ mm}^2$	$S_r = 19 \text{ mm}^2$	$S_r = 15 \text{ mm}^2$
CP/CK40	Ni 35 U	40	240	60	105	210	30				
CP/CK40	Ni 35	40	180	60	105	210	40				
CP/CK40	Ni 40 U	40	240	60	120	240	40				
CP/CK40	Ni 50 U	40	240	60	150	300	40	$S_r = 35 \text{ mm}^2$	$S_r = 25 \text{ mm}^2$	$S_r = 20 \text{ mm}^2$	$S_r = 17 \text{ mm}^2$

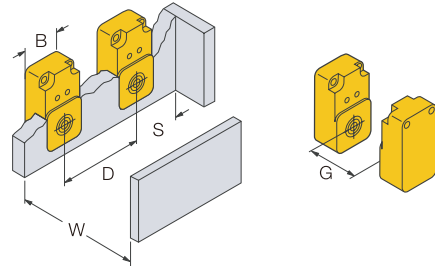


1) 单位为mm  
2) 仅直流型

## 方型外壳-安装在金属中的最小距离<sup>1)</sup>

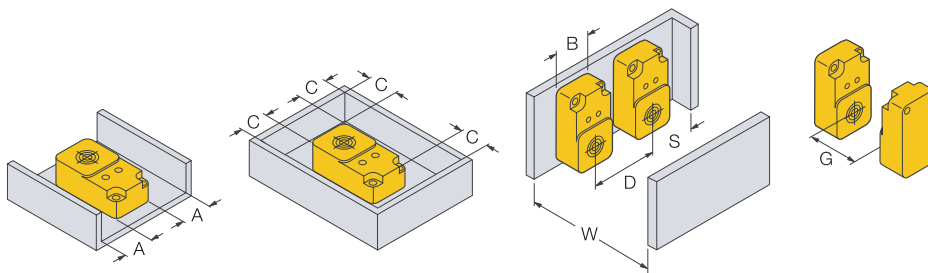
外壳类型Q5.5, Q06, Q08, Q10, Q14, Q20, CP80, Q80, K90

- 齐平式安装



外壳类型	传感器型号	B	D	S	W	G
Q5,5	Bi 2	8	16	8	6	12
Q06	Bi 3	17,3	35	17	9	18
Q08	Bi 5	20	40	20	15	30
Q08	Bi 5 U	20	40	20	15	30
Q08	Bi 7	20	40	20	21	42
Q10	Bi 8 U	25	50	25	24	48
Q14	Bi10	30	45	30	30	60
Q14	Bi10 U	30	45	30	30	60
Q20	Bi15	40	60	40	45	90
Q20	Bi15 U	40	60	40	45	90
CP80	Bi40	80	160	80	120	240
Q80	Bi50 U	80	160	80	150	300

- 非齐平式安装/部分嵌入式

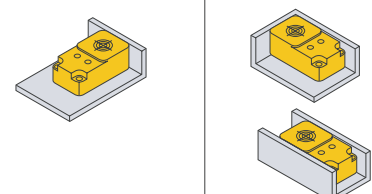


外壳类型	传感器型号	B	D	S	W	G	A	C
Q5,5	Ni 3,5	8	24	12	11	21	4	8
Q14	Ni 20	30	90	45	60	120	20	30
Q20	Ni 25	40	120	60	75	150	25	40
CP80	Ni 40	80	240	120	120	240	40	80
CP80	Ni 50	80	240	120	150	300	50	80
CP80	Ni 75 U	80	240	120	225	450	60	80
K90	Ni 50	90	270	135	150	300	50	90
K90	Ni 60	90	270	135	180	360	60	90
K90	Ni100 U	90	270	135	300	600	100	90

部分嵌入式时, 实际开关距离 $S_r$ :

1侧 | 2侧

$S_r = 70 \text{ mm}$



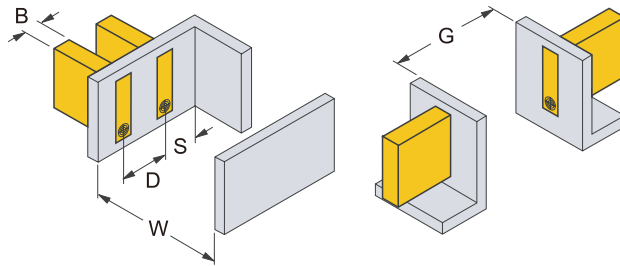
1) 单位为mm

# 电感式传感器—安装指南

## 方型外壳-安装在金属中的最小距离<sup>1)</sup>

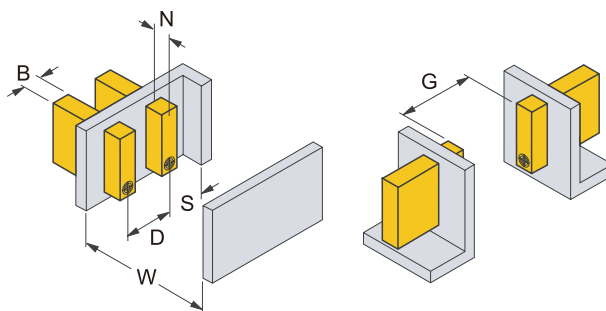
外壳类型Q6.5, Q8SE, Q9.5, Q10S, Q11S, Q12, Q25, Q26, Q30, Q34

- 齐平式安装



外壳类型	传感器型号	B	D	S	W	G
Q6,5	Bi 1	6,5	13	7	3	6
Q10S	Bi 2	10	20	10	6	12
Q12	Bi 2	12	24	12	6	12
Q26	Bi10	26	52	26	30	60

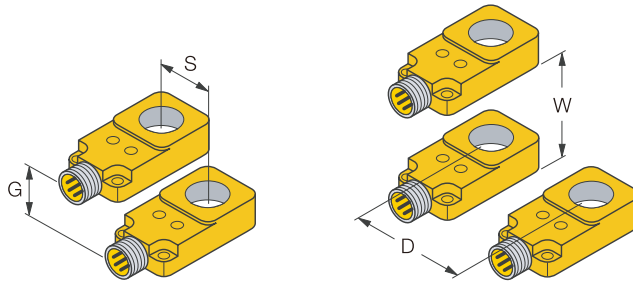
- 非齐平式安装/部分嵌入式



外壳类型	传感器型号	D	S	W	G	
Q6,5	Ni 2	6,5	13	10	6	12
Q9,5	Ni 2	9,5	19	14	6	12
Q12	Ni 4	12	24	18	12	24
Q25	Ni10	25	50	38	30	60
Q30	Ni15	30	60	45	45	90

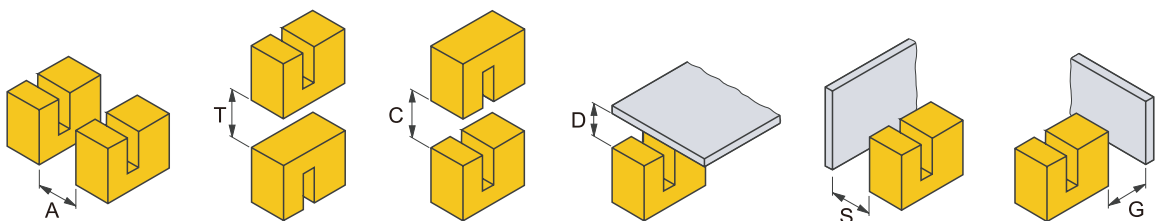
1) 单位为mm

## 环形开关-最小距离<sup>1)</sup>



传感器型号	G	S	W	D
Q14...	30	14	45	45
Q20	40	20	55	55
W30...	120	依型号而定	120	120

## 窄缝形传感器-最小距离<sup>1)</sup>



传感器型号	A	T	C	D	S	G
Si2...	15	5	15	0	0	1
Si3,5...	15	5	15	0	0	0
Si5...	10	0	5	0	0	0
Si15...	30	10	30	5	5	5

1) 单位为mm

# 电感式传感器—安装指南

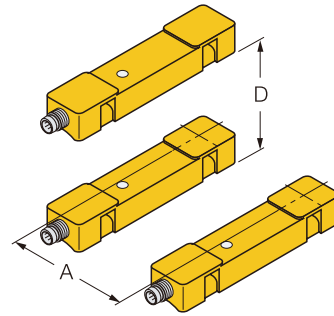
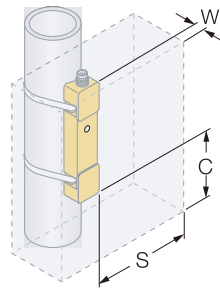
方型外壳-安装在金属中的最小距离<sup>1)</sup>

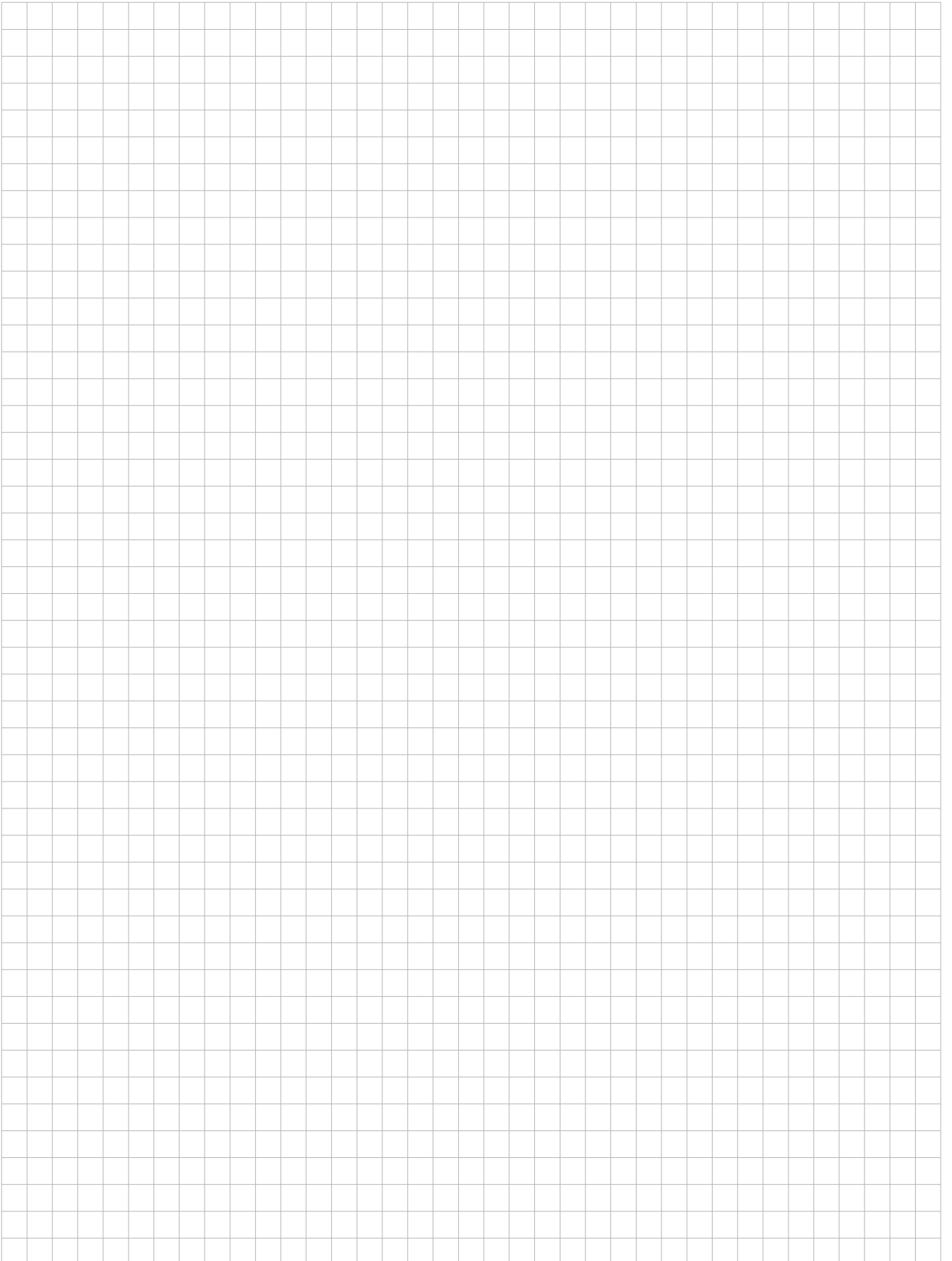
## TS12 外形

安装模式

D  
W  
S  
A  
C

50 mm  
35 mm  
35 mm  
42 mm  
30 mm





# 术语—电感式传感器

## 外壳材料

塑料	材料	特征
ABS	丙烯腈-丁二烯-苯乙烯	有韧性，刚性
DURO	Duroplast	高机械强度和耐温变化
EPT	热塑橡胶	高机械强度，抗温度变化和化学品
PA	尼龙	高机械强度，抗温度变化，PA6/12 能用于食品工业
PA-X	照射尼龙	更高机械强度，耐高温，PA6/12能用于食品工业
PBT	橡胶	高机械强度，抗温度变化，阻燃且自熄灭 (UL94-V0)，耐化学品
ULTEM (PEI)	(PEI) Polyetherimide	更高机械强度，抗温度变化，阻燃且自熄灭 (UL94-V0)，耐化学品，耐紫外线
POM	聚氧化甲烯	高韧性，机械强度高，耐化学品腐蚀
PP	Polypropylene	耐化学品腐蚀，酸，溶剂，耐温度变化，机械强度高
PTFE	特氟龙	耐温度变化，耐化学品腐蚀性能最好
PUR	聚氨酯	有弹性，耐磨，有韧性，耐油，油脂，溶解液的腐蚀
PVC	聚氯乙烯	机械强度高，有韧性，耐化学品
PVC-X	照射聚氯乙烯	更高机械强度，耐冲击，耐化学品，耐温变化
PVDF	聚偏氟乙烯	高耐温度，机械强度高 (与 PTFE相似)，耐化学品
Trogamid	透明尼龙	透明，坚硬，刚性，耐化学品
VES	Vestimid(PA)	高机械强度，耐温变化
LCP	液晶高分子	耐温、耐化学品绝佳
CuZn-Cr	铜镀铬	标准外壳材料
CuZn-Ni	铜镀镍	标准外壳材料
CuZn-T	铜独特氟龙涂层	特氟龙涂层用于防焊接火花
GD-Al	压铸铝	重量轻,长寿命
GD-Zn	压铸锌	长寿命
GD-CuZn	压铸铜	长寿命

## 外壳材料

金属	材料	特征
VA	不锈钢	高耐侵蚀性,专用于食品工业
VA-T	不锈钢,特氟龙涂层	特氟龙涂层用于防焊接火花

导线	特性	代码*
PVC导线防护套 PVC绝缘线	标准质量, 绞合线结构 高韧性 (LifYY)	
PUR导线防护套 PVC绝缘线	抗所有工业油和润滑油。导线防护套抗 振动和弯曲力,小弯曲半径	
Silicone 导线防护套 Silicone 绝缘线	用于高低温 (-50...+180°C)中等机械强度, 抗酸碱,油和溶剂。	.../S140* 或 .../S97* (-40 °C) SiHSi, 2 x 0,5 mm <sup>2</sup> , 16 x 0,2 SiHSi, 3 x 0,5 mm <sup>2</sup> , 16 x 0,2 SiHSi, 3 x 0,25 mm <sup>2</sup> , 14 x 0,15

\* 代码加在标准型号后

# 术语—电感式传感器

可用工作距离 (sa) (Fig. 1)

- 传感器可靠工作的距离。
- 与额定工作距离的关系  
 $sa < 0,81 \cdot s_n$

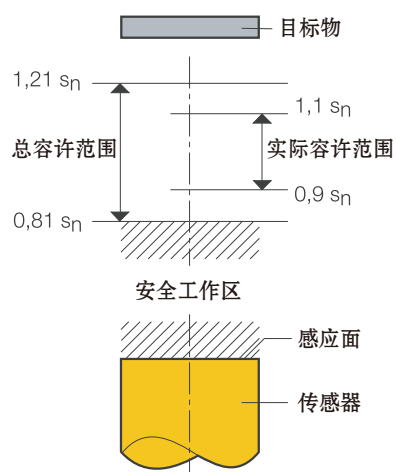


Fig. 1: 电感式传感器开关距离误差

电磁兼容性 (EMC)

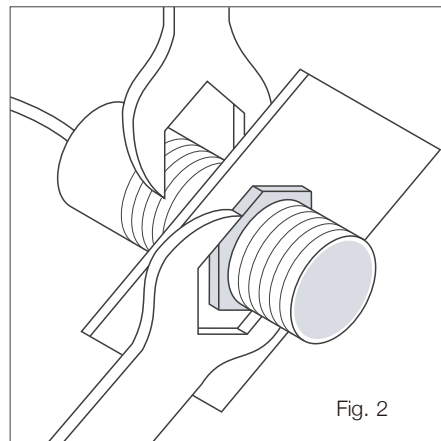
- 测试和限制值按生产标准EN 60947-5-2定义

紧固扭矩 (Fig. 2)

- 旋紧螺母时, 不可使扭矩超过允许值。
- 适合螺母的扳手型号尺寸样本上已注明
- 对于强震动, 使用液压扳手。

齐平和非齐平安装

- 传感器齐平安装, 埋入金属基座中, 感应面与基座面齐平; 非齐平安装时感应面露出金属。
- 非齐平安装的传感器有更大的检测距离。



磁滞(H) (图. 3)

- 传感器接通与断开时, 检测物轴向位置差。
- 用与检测距离的百分比表示(%)

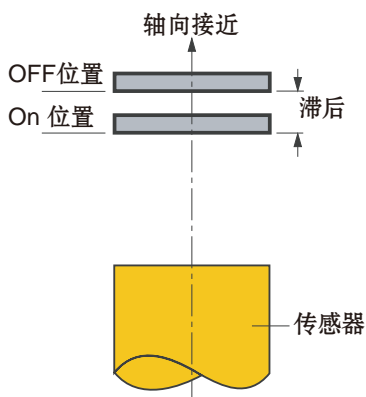


Fig. 3: 磁滞 H

绝缘级别 (VDE 0110b)

绝缘级别根据VDE 0110确定, 主要包括:

- 应用情况
- 受周围环境的影响如灰尘, 温度, 老化等影响导致绝缘电阻减少。
- 在使用中可能出现的绝缘故障。

绝缘级别 B

包括用于私人, 销售, 商业的设备, 高精度机械, 实验, 医疗场所等。

绝缘级别 C

包括主要用于工业, 贸易, 农业, 无加热储藏室, 车间, 罐区, 机械加工等。

最小工作电流 (Im)

- 保持开关功能最小工作电流.
- 仅对两线传感器而言

储存温度

- 储存温度范围: -30...+85° C. 若环境温度高于此值, 则按照此温度储存。

空载工作电流 (I0)

- 供电与0伏间的电流值
- 仅对三/四线传感器而言

关状态电流 (Ir)

- 两线传感器: 无激励状态电流
- 三/四线传感器: 供电与0伏间的无激励状态电流 (PNP输出), 输出和供电压端的无激励状态电流 (NPN输出)。

开关距离 (s)

- 随着物体做轴向接近而改变的距离。

# 术语—电感式传感器

## 输出功能

- 常开 (N.O.): 开状态传感器无输出, 关状态有输出。
- 常闭 (N.C.): 开状态传感器有输出, 关状态无输出。
- 互补输出: 当传感无激励时, 两个输出中的一个关闭; 当传感器被激励时, 另一个输出关闭。

## 防护级别

- 外壳对固体和液体的防护。
- IP65: 直立部分压力下的完全接触保护, 防尘和淋水。
- IP67: 直立部分压力下的完全接触保护。水下1米, 30分钟不渗水。

- IP68: 包括IP67的内容
  - 24 小时置于 +70°C
  - 24 小时置于 -25°C
  - 水下1米放7天
  - +70 °C至 -25°C, 每变10度放置1小时
- IP69K: 抗高压冲洗按DIN 40050-9标准, 基于E N 60529

## 额定工作距离 (sn)

- 采用标准检测物轴向接近测得。
- 制造误差和外部影响不被考虑。
- 样本只标注额定工作距离

## 实际开关距离 (sr)

- 在固定温度和供电条件下测得的开关距离
- 制造误差算在内
- 与额定工作距离的关系  
 $0,9 \text{ sn} < \text{sr} < 1,1 \text{ sn}$

## 修正因数

- 带铁氧体磁芯的电感式传感器的距离与检测物的材质有关。
- 最大开关距离依据检测物材料为37号钢, 其它材质检测距离将减小
- 修正因素以37号钢为依据

## 标准修正参数值:

材料	修正因数
37号钢	1
黄铜	0,35...0,5
铜	0,25...0,45
铝	0,35...0,50
不锈钢	0,6...1

- *uprox*®系列传感器对所有金属检测距离相同。修正因数恒为1。

余波

- 残留的交流电压叠加于直流电压
- 通常供电余波为 10 % (顶点到顶点) 是允许的

标准检测物

- 方型金属块用于标定额定开关距离
- 材料: 37号钢
- 1 mm厚
- 外形尺寸: 3倍额定工作距离, 前提是如果 $3s_n$ 超过感应面直径, 否则应大于感应面的直径。

额定工作电流 ( $I_e$ )

- 最大负载电流

开关频率 (f)

- 每秒开关变化的最大次数
- 用标准圆盘检测 ( Fig. 4 )
- 最大开关频率的距离  $s = s_n/2$  (标准圆盘)

可用工作距离 ( $s_u$ )

- 在允许温度和电压范围内的可靠工作距离
- 相关工作距离
  - $0,9 \cdot s_r < s_u < 1,1 \cdot s_r$
  - $0,81 \cdot s_n < s_u < 1,21 \cdot s_n$

电压降 ( $U_d$ )

- 开关输出电压

断线保护

- 如果导线断了, 输出关闭 (无故障)

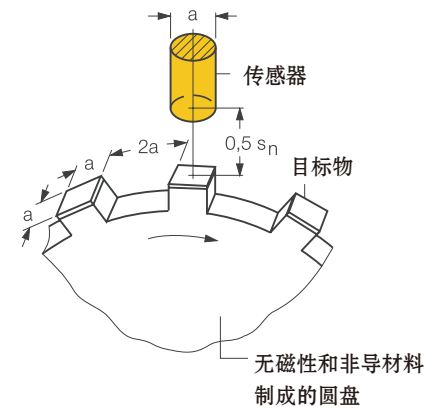


Fig. 4: 开关频率 f

# 术语—电感式传感器

## 标准和指示（相关部分）

### 1) 标准

EN 60947-5-2

低电压开关转换装置和控制装置，  
第5部分：控制电路设备开关元件  
第2部分：传感器

EN 50014

用于爆炸和危险区的普通需求的  
电子装置

EN 50020

用于爆炸和危险区的本安型“i”电  
子装置

EN 50021

用于爆炸和危险区的防护类型为  
“N”的电子装置

EN 50281-1-1

用于存在易燃粉尘区域的电气设备

EN 61000-6-4

电磁兼容性(EMC);  
普通发射标准

EN 61000-6-2

电磁兼容性(EMC);  
普通发射标准

EN 60529/IEC 60529/  
DIN VDE 0470-1

防护级别 (IP 代码)

EN 60947-5-6 (NAMUR)

控制电路设备，开关元件和接近  
开关，用于传感器和开关放大器  
间的直流接口。（本安型）

### 2) 指示

73/23/EWG

低电压

89/336/EWG

电磁兼容性(EMC)

93/68/EWG

CE-标记

94/9/EG

防爆 (ATEX )



CE-标记不是质量标准的  
符号，也不是实验标志，  
只用于欧共体内的自由  
贸易

CE-标记贴在产品上，生产商保证  
应用中所有这些产品的防护目的。

## 通过传真或因特网索取认证信息

一些接近开关取得了根据EN50020  
标准的“本安”型防护认证以用于  
欧共体成员。此外，一些传感器还  
取得了以下国家认证：

USA

Kanada/USA

Tschechien

Schweiz

Ungarn

Rußland und GUS-Staaten

China

Japan

FM

CSA

FTZU

SEV

BKI

ISZ WE

NEPSI

T.I.I.S

可以通过传真或因特网索取认证

[www.turck.com](http://www.turck.com)

Worldwide Headquarters, Germany

Support

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COM**

	特性	参考页码
...bar	前端耐压	278
100bar	耐压至100 bar	278
500bar	耐压至500 bar	278
analog+	测量范围增大的模拟量输出	188
ASI	AS-I接口输出	-
dynamic output	动态输出 (环形传感器)	124
	执行EN60947-5-6的NAMUR传感器	204
 II1G	Atex group II category 1G	204
 II2G	Atex group II category 2G	204
 II3D	Atex group II category 3D	204
 II3G	Atex group II category 3G	204
 II3GD	Atex group II category 3GD	204
MF immune	抗磁场干扰	290
rotation monitoring	转速监控, 开关点可调	284
selective FE	仅检测铁磁性金属	280
selective NF	仅检测非铁磁性金属	280
Sn+	增强检测距离	-
static output	静态输出 (环形传感器)	124
T-40°C	扩展温度范围 -40...+70°C	238
T-60°C	扩展温度范围 -60...+60°C	238
T+100°C	扩展温度范围 -25...+100°C	238
T+120°C	扩展温度范围 -25...+120°C	238
T+160°C	扩展温度范围 -25...+160°C	238
PTFE	特氟龙涂层外壳	-
underwater	深水应用型可至水下500m	276
uprox®	全金属检测型	148
wash down	IP68/IP69K 防护外壳	272

	材料
ABS	丙烯晴-丁二烯-苯乙烯
CuZn-Cr	铜镀铬
CuZn-Ni	铜镀镍
CuZn-T	铜镀特氟龙
DURO	Duroplast
EPTR	热缩橡胶
GD-Al	压铸铝
GD-CuZn	压铸铜
GD-Zn	压铸锌
PA	尼龙
PA-X	照射尼龙
PA-T	镀特氟龙
PBT	橡胶
PC	Polycarbonat
POM	聚氧化甲烯
PP	polypropylen
PTFE	特氟龙
PUR	聚氨酯
PVC	聚氯乙烯
PVC-X	照射聚氯乙烯
PVDF	聚偏氟乙烯
Trogamiyd	透明尼龙
ULTEM	Ultem
VA	不锈钢
VA-T	不锈钢, 镀特氟龙涂层
VES	Vestamid

	符号
	齐平安装
	非齐平安装
	接插件
	0.5m导线
	2m导线
	接线端子
	常开触点
	常闭触点
	常开常闭互补触点
	短路保护

# 型号索引

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BI0,8-Q5SE-AP6X	17	BI10-EM30-AP6/S907	111	BI10U-M30-AP6X	109,203
BI1-EG05-AN6X	43	BI10-EM30-Y1X-H1141	99	BI10U-M30-AP6X-H1141	99,197
BI1-EG05-AN6X-V1331	43	BI10-EM30D-VP6X/S120	111,247,263	BI10U-M30-VN4X	109,203
BI1-EG05-AP6X	43	BI10-EM30WDTC-Y1X	115	BI10U-M30-VN4X-H1141	99,197
BI1-EG05-AP6X-V1331	43	BI10-G30SK-AN6X	115	BI10U-M30-VP4X	109,203
BI1-EG05-RP6X	43	BI10-G30SK-AP6X	115	BI10U-M30-VP4X-H1141	99,197
BI1-EG05-RP6X-V1331	43	BI10-G30SK-Y1X	115	BI10U-MT30-AD4X-H1144	99
BI1-EG05-Y1	43	BI10-M30-AD4X-H1141	99	BI10U-MT30-AN6X-H1141	99,197
BI1-Q6,5-AN6	17	BI10-M30-AN6X-H1141	99	BI10U-MT30-AP6X-H1141	99,197
BI1-Q6,5-AP6	17	BI10-M30-AP6X-H1141	99	BI10U-P30SK-AN6X	115,205
BI1-Q6,5-AP6/S34	17	BI10-M30-AP6X/S100	243	BI10U-P30SK-AP6X	115,205
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BI1,5-EG08-AP6X	49	BI10-M30-Y1X-H1141	99	BI10U-S30-AN6X	107,201
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BI1,5-EG08K-AN6X	47	BI10-Q14-Y1X	25	BI12-M30-AD4X-H1141	99
BI1,5-EG08K-AN6X-V1131	43	BI10-S30-AN6X-H1141	101	BI15-CK40-AD4X-H1141	31
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BI1,5-EG08WD-AN6X-H1341	47,255,269	BI10NF-EM30HE-AP6X2-H1141	101,279	BI15-CP40-AN6X2	35
BI1,5-EG08WD-AP6X-H1341	47,255,269	BI10R-Q14-AP6X2-H1141	133	BI15-CP40-AP6X2	35
BI1,5-EH04-0,3-M12-SIU-H1141	219	BI10R-Q14-AN6X2-H1141	133	BI15-CP40-FZ3X2	35
BI1,5-EH6,5-LU	219	BI10R-W30-DAN6X-H1141	135	BI15-CP40-FZ3X2/S100	35,237
BI1,5-EH6,5K-AN6X	123	BI10R-W30-DAP6X-H1141	135	BI15-CP40-FZ3X2/S97	35,233
BI1,5-EH6,5K-AP6X	123	BI10S-Q26-AD4X-H1141/S34	29	BI15-CP40-VN4X2	35
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BI1,5-HS865-Y1	123	BI10U-EG30SK-VN4X	115,205	BI15-M30-AN6X-H1141	99
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BI1,5U-EG08-AN6X-V1131	45,169	BI10U-EM30-AP6X	109,203	BI15-M30-VN6X-H1141	99
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型号	页码	型号	页码	型号	页码
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BI15R-Q14-AP6X2-H1141	133	BI2-EG08-AN6X/S100	49,237	BI2-M12E-AN6X-H1141	55
BI15R-W30-DAN6X-H1141	135	BI2-EG08-AP6X	49	BI2-M12E-AP6X-H1141	55
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BI15R-W30S-AP6X-H1141	135	BI2-EG08-AP6X-V1131	43	BI2-P12-Y1X	67
BI15U-EM30-AP6X	109	BI2-EG08-AP6X/S100	49,237	BI2-P12-Y1X/S100	67
BI15U-CK40-ADZ30X2-B1131	165	BI2-EG08-AZ14X	49	BI2-P12-Y1X/S97	67,233
BI15U-CK40-ADZ30X2-B3131	165	BI2-EG08-VP6X-H1341	45	BI2-P12SK-AN6X	71
BI15U-CK40-AN6X2-H1141	31,163	BI2-EG08K-AN6X	47	BI2-P12SK-AP6X	71
BI15U-CK40-AP6X2-H1141	31,163	BI2-EG08K-AN6X-H1341	45	BI2-P12SK-Y1X	69
BI15U-CK40-VN4X2-H1141	31,163	BI2-EG08K-AN6X-V1131	43	BI2-Q10S-AN6X	23
BI15U-CK40-VP4X2-H1141	31,163	BI2-EG08K-AP6X	47	BI2-Q10S-AP6X	23
BI15U-CP40-AN6X2	33,167	BI2-EG08K-AP6X-H1341	45	BI2-Q10S-AP6X-0,2-PSG3M	23
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BI15U-CP40-VP4X2	37,167	BI2-EG08K-VP6X-H1341	45	BI2-Q10S-VP6X	23
BI15U-CP40-VP4X2-H1141	33,165	BI2-EG12-Y1X/S100 7M	63,239	BI2-Q10S-Y1X	23
BI15U-EM30-AP6X-H1141	99	BI2-EG12SK-Y1X	69	BI2-Q12-AZ31X	23
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BI15U-EM30WD-		BI2-EM12-VP6X 7M	63	BI2-Q5,5K-AP6X	17
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BI15U-EM30WD-VP44X/S90 20M	109	BI2-G12-Y2X 7M	63	BI2-S12-AP6X-H1141	57
BI15U-EM30WDTC-AP6X	117	BI2-G12K-AN6X	63	BI2-S12-AP6X/S100	63,239
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BI15U-M30-VN44X-H1141	99,197	BI2-K11-Y1	125	BI20-G47-AN4X	117
BI15U-M30-VP44X	109,203	BI2-K11SK-AP6X	125	BI20-G47-AP4X	117
BI15U-M30-VP44X-H1141	97,197	BI2-M12-AD4X	63	BI20R-Q14-AN6X2-H1141	133
BI15U-M30E-AP6X-H1141	101	BI2-M12-AD4X-H1141	53	BI20R-Q14-AP6X2-H1141	133
BI15U-MT30-AN6X-H1141	99,197	BI2-M12-AN6X	63	BI20R-Q14-LU	141,221
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BI15U-Q20-AN6X2	27,161	BI2-M12-AP6X	61	BI20R-W30-DAN6X-H1141	135
BI15U-Q20-AN6X2-H1141	27,161	BI2-M12-AP6X-H1141	53	BI20R-W30-DAP6X-H1141	135
BI15U-Q20-AP6X2	27,161	BI2-M12-AP6X/S100	61	BI20R-W30S-AP6X-H1141	137
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BI20U-CP40-AP6X2	33,167	BI3U-EM12-AN6X-H1141	53,173	AP6X-H1141/3D	53,173,255
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BI20U-CP40-VP4X2	37,167	BI3U-EM12E-VN4X	65,181	BI4U-M12-AN6X-H1141	53,173
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BI3NF-EM12HE-AN6X2-H1141	55,279	AN6X-H1141	53,173,255,269	BI5-M18-AP6X/S120	89,245
BI3NF-EM12HE-AP6X2-H1141	55,279	BI4U-EM12WD-		BI5-M18-AZ3X	87
BI3U-EG12SK-AN6X	71,181	AN6X-H1141/3D	53,173,255	BI5-M18-AZ3X/S120	89,245
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BI5-S18-AZ3X/S100	93,241	BI5U-Q12-AN6X2	25,159	BI8U-EM18WD-AN6X	259,273
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BI5-S18-VP4X/S100	93,241	BI5U-Q12-AN6X2-V1131	23,159	AN6X-H1141	75,185,257,271
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BI50-Q80-Y1X	39	BI5U-Q12-AP6X2-H1141	23,159	H1141/3GD	75,185,257
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BI50U-Q80-AN6X2-H1141	37,167	BI5U-Q12-VN6X2 7M	25,159	AP6X-H1141	75,185,271,257
BI50U-Q80-AP6X2-H1141	37,167	BI5U-Q12-VP6X2	25,159	BI8U-EM18WD-AP6X-	
BI50U-Q80-VN4X2-H1141	37,167	BI5U-Q12-VP6X2 7M	25,159	H1141/3GD	75,185,257
BI50U-Q80-VP4X2-H1141	37,167	BI5U-Q12-VP6X2-H1141	23,159	BI8U-M18-AN6X	85,191
BI50U-Q80-VP4X2-H1141/3GD	37,167	BI5U-Q12-VP6X2/F2	25,159	BI8U-M18-AN6X-H1141	73,183
BI5FE-M18FE-AP6X-H1141	77,279	BI5U-S18-AN6X	93,191	BI8U-M18-AP6X	85,191
BI5NF-EM18HE-AN6X2-H1141	79,279	BI5U-S18-AN6X-H1141	73,185	BI8U-M18-AP6X-H1141	73,183
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BI5U-EG18SK-VP4X	95,193	BI65R-Q80-AP6X2-H1141	137	BI8U-M18M-VN44X	87,191
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BI5U-EM18-AN6X-H1141	75,185	BI6R-W30-DAP6X-H1141	135	BI8U-M18M-VP44X	87,191
BI5U-EM18-AP6X	85,191	BI6U-EH6,5-AN6X	207	BI8U-M18M-VP44X-H1141	77,185
BI5U-EM18-AP6X-H1141	75,185	BI6U-EH6,5-AP6X	207	BI8U-MT18-AN6X-H1141	75,185
BI5U-G18-ADZ30X2-B1331	83,189	BI7-G18K-AD4X	85	BI8U-MT18-AP6X-H1141	75,185
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BID2-G180-AP6-H1141/S220	77,271	BI10-P30-Y1/S100	105,241	BSS-12	292
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BIM-M12E-AN4X	227	BI10-S30-AZ3X/S100	107,243	DBI5U-M18E-AP4X2 50/MIN	89,193,283
BIM-M12E-AN4X-H1141	227	BI10-S30-AZ3X/S97	107,235	DBI5U-M18E-AP4X2 500/MIN	89,193,283
BIM-M12E-Y1X-H1141	227	BI10-S30-VP4X/S100	107,243	DBI5U-M18E-AP4X3	89,193,283
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BI1-EH04-AP6X-V1331	119	BI15-M30-LI-EXI	219	DNI20U-M30-AP4X2	111,205,285
BI1-EH04-RP6X	121	BI15-M30-VN6X	109	DNI30U-K40SR-AP4X2	129,207,285
BI1-EH04-RP6X-V1331	119	BI15-M30-VP6X	109	DTBI10U-M30-AP4X2	111,203,283
BI1-EH04-Y1	119	BI2-EH6,5-AN6X-V1131	121	DTBI5U-M18E-AP4X3	89,193,283
BI1-HS540-AN6X	121	BI2-EH6,5-AP6X-V1131	121	DTNI12U-M18E-AP4X3	95,193,283
BI1-HS540-AP6X	121	BI2-EH6,5K-AN6X-V1131	121	DTNI20U-M30-AP4X2	111,205,285
BI1-HS540-RP6X	121	BI2-EH6,5K-AP6X-V1131	121	EM30-AP6X2-H1141/S1102	251
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NI15-M30-LIU	219	AN6X-H1141	59,177,255,269	NI12U-P18SK-AN6X	97,195
NI5-M12-LIU-H1141	215	NI10U-EM12WD-AN6X-		NI12U-P18SK-AP6X	97,195
NI8-M18-AD4X-H1141	81	H1141/3D	59,177,255	NI12U-S18-AN6X	93,191
NI8-S18-AZ3X/S100	241	NI10U-EM12WD-AP6X	69,181,257,271	NI12U-S18-AN6X-H1141	73,185
NI8-S18-VP4X/S100	241	NI10U-EM12WD-		NI12U-S18-AP6X	93,191
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NI6U-EH6,5-AP6X-V1131	123,207	NI8-S18-VP4X/S100	93,241	NI20-M30-VP6X 7M	113
NI6U-EH6,5-RP6X-V1131	207	NI8-S18-VP4X/S97	93,233	NI25-CK40-LIU-H1141	211
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NI75U-CP80-AP6X2	39,169	NI8U-EM12-AP6X	67,181	NI8-EM18-AP6/S907	249
NI75U-CP80-FDZ30X2	41,169	NI8U-EM12-AP6X-H1141	59,177	NI8-M18-AP6X/S100	91
NI75U-CP80-VN4X2	41,169	NI8U-G12-ADZ32X-B3131	61,179	NI8-M18-VN4X-H1141	81
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NI75U-CP80-VP4X2-H1141	169	NI8U-M12-AN6X-H1141	59,177	NI8-S18-AP6X	93
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NI75U-Q80-AP6X2-H1141	39	NI8U-M12-AP6X-H1141	59,177	PN-M18	294
NI75U-Q80-VN4X2-H1141	39	NI8U-M12E-VN4X	69,181	PN-M30	295
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