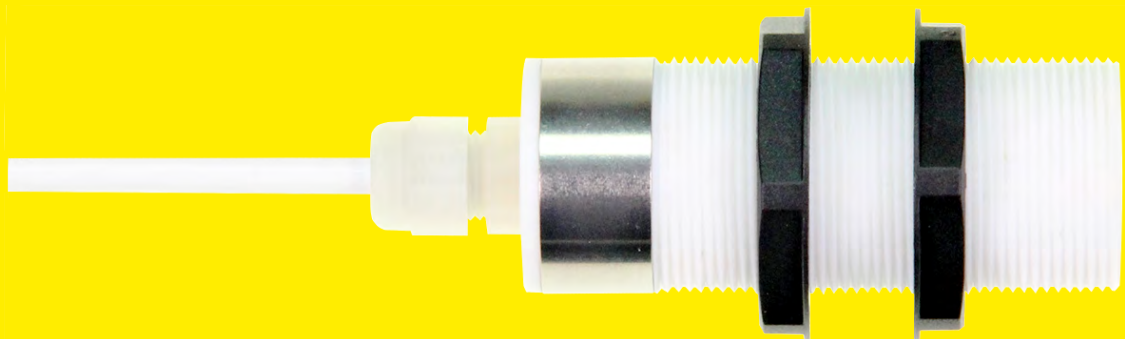
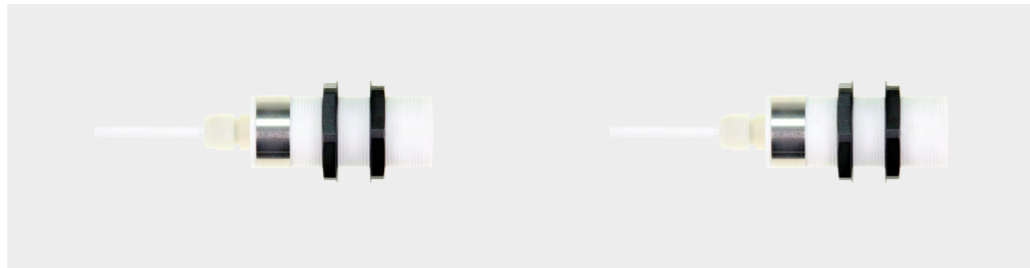


Inductive Proximity Switches

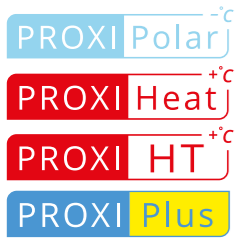
PROXI PTFE with PTFE housing

IP68 - chemical resistant - temperature resistant





Temperatur max.	Sensing distance Sn	15	20	24	19	25	
+80 °C	Mounting	non flush	non flush	non flush	non flush	non flush	
	Housing	M32	M32	M32	Ø 35 / L = 90	Ø 35 / L = 90	
	Material	PTFE	PTFE	PTFE	PTFE	PTFE	
	Protection class	IP 68	IP 68	IP 68	IP 68	IP 68	
	Connection	cable	cable	cable	cable	cable	
+100 °C	20-260 V AC/DC n.c.	IKLT 015.04 G	IKLT 020.04 G	IKLT 024.04 G	IKHT 019.04 G	IKHT 025.04 G	
	20-260 V AC/DC n.o.	IKLT 015.05 G	IKLT 020.05 G	IKLT 024.05 G	IKHT 019.05 G	IKHT 025.05 G	
	24 V DC n.c.	IKLT 015.16 G	IKLT 020.16 G	IKLT 024.16 G	IKHT 019.16 G	IKHT 025.16 G	
	24 V DC n.o.	IKLT 015.17 G	IKLT 020.17 G	IKLT 024.17 G	IKHT 019.17 G	IKHT 025.17 G	
	10-55 V DC NPN n.c.	IKLT 015.30 G	IKLT 020.30 G	IKLT 024.30 G	IKHT 019.30 G	IKHT 025.30 G	
	10-55 V DC NPN n.o.	IKLT 015.31 G	IKLT 020.31 G	IKLT 024.31 G	IKHT 019.31 G	IKHT 025.31 G	
	10-55 V DC PNP n.c.	IKLT 015.32 G	IKLT 020.32 G	IKLT 024.32 G	IKHT 019.32 G	IKHT 025.32 G	
	10-55 V DC PNP n.o.	IKLT 015.33 G	IKLT 020.33 G	IKLT 024.33 G	IKHT 019.33 G	IKHT 025.33 G	
	10-55 V DC PNP n.c. + n.o.	IKLT 015.38 G	IKLT 020.38 G	IKLT 024.38 G	IKHT 019.38 G	IKHT 025.38 G	
	Cable version	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	
	+120 °C	20-260 V AC/DC n.c.	IKLT 015.04 GH	IKLT 020.04 GH	IKLT 024.04 GH	IKHT 019.04 GH	IKHT 025.04 GH
		20-260 V AC/DC n.o.	IKLT 015.05 GH	IKLT 020.05 GH	IKLT 024.05 GH	IKHT 019.05 GH	IKHT 025.05 GH
		24 V DC n.c.	IKLT 015.16 GH	IKLT 020.16 GH	IKLT 024.16 GH	IKHT 019.16 GH	IKHT 025.16 GH
		24 V DC n.o.	IKLT 015.17 GH	IKLT 020.17 GH	IKLT 024.17 GH	IKHT 019.17 GH	IKHT 025.17 GH
10-55 V DC NPN n.c.		IKLT 015.30 GH	IKLT 020.30 GH	IKLT 024.30 GH	IKHT 019.30 GH	IKHT 025.30 GH	
10-55 V DC NPN n.o.		IKLT 015.31 GH	IKLT 020.31 GH	IKLT 024.31 GH	IKHT 019.31 GH	IKHT 025.31 GH	
10-55 V DC PNP n.c.		IKLT 015.32 GH	IKLT 020.32 GH	IKLT 024.32 GH	IKHT 019.32 GH	IKHT 025.32 GH	
10-55 V DC PNP n.o.		IKLT 015.33 GH	IKLT 020.33 GH	IKLT 024.33 GH	IKHT 019.33 GH	IKHT 025.33 GH	
10-55 V DC PNP n.c. + n.o.		IKLT 015.38 GH	IKLT 020.38 GH	IKLT 024.38 GH	IKHT 019.38 GH	IKHT 025.38 GH	
Cable version		Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	
+120 °C		20-260 V AC/DC n.c.	IKLT 015.04 GH1	IKLT 020.04 GH1		IKHT 019.04 GH1	
		20-260 V AC/DC n.o.	IKLT 015.05 GH1	IKLT 020.05 GH1		IKHT 019.05 GH1	
		24 V DC n.c.					
		24 V DC n.o.					
	10-55 V DC NPN n.c.	IKLT 015.30 GH1	IKLT 020.30 GH1	IKLT 024.30 GH1	IKHT 019.30 GH1	IKHT 025.30 GH1	
	10-55 V DC NPN n.o.	IKLT 015.31 GH1	IKLT 020.31 GH1	IKLT 024.31 GH1	IKHT 019.31 GH1	IKHT 025.31 GH1	
	10-55 V DC PNP n.c.	IKLT 015.32 GH1	IKLT 020.32 GH1	IKLT 024.32 GH1	IKHT 019.32 GH1	IKHT 025.32 GH1	
	10-55 V DC PNP n.o.	IKLT 015.33 GH1	IKLT 020.33 GH1	IKLT 024.33 GH1	IKHT 019.33 GH1	IKHT 025.33 GH1	
	10-55 V DC PNP n.c. + n.o.	IKLT 015.38 GH1	IKLT 020.38 GH1	IKLT 024.38 GH1	IKHT 019.38 GH1	IKHT 025.38 GH1	
	Cable version	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	Silicone, PTFE	



PROXI Polar Proxitron low-temperature series for temperatures from -40 °C available for many designs.

PROXI Heat Proxitron high-temperature series for temperatures of up to +120 °C available for many designs.

PROXI HT Proxitron high-temperature series for temperatures of up to +230 °C
See "Inductive sensors high temperatures" brochure

PROXI Plus Product line extension with increased switching distance in existing housing design.
See "ProxiPlus" brochure.

The sensing distance Sn describes the axial approaching of a square steel plate with its side length equal to three times the sensing distance. (for example: Sensing distance 15 mm relates to a steel plate with side length of 45 x 45 mm). Smaller metal object reduces the maximum attainable sensing distance.
The attainable sensing distance is a function of the material of the metal object and can be calculated using the correction factor:
max. possible sensing distance = sensing distance x correction factor

material	metal foil	steel	stainless steel	brass	aluminium	copper	nickel	cast iron
correction factor	1,2	1	0,5 ... 0,8	0,45	0,4	0,3	0,7	0,93 ... 1,05

General Information Inductive Proximity Switches PTFE

Sensors in PTFE plastic housings are often used in aggressive chemical environments as for example in cold rolling mills, cement works or coking plants. Proxitron plastic housings consist of full potting and therefore are absolutely corrosion-free and reliable even at quick changing temperatures. In combination with high-quality PTFE cable, they offer the best solution when high temperature resistance and chemical resistance are required.



Type Code

Type (see table previous page)	e. g. IKLT 015							
20 - 260 V AC/DC	0							
24 V DC	1							
10 - 55 V DC	3							
NPN - normally closed	0							
NPN - normally open	1							
PNP - normally closed	2							
PNP - normally open	3							
2-wire normally closed AC/DC	4							
2-wire normally open AC/DC	5							
2-wire normally closed 24 V DC	6							
2-wire normally open 24 V DC	7							
PNP normally closed + PNP normally open	8							
Internal thread M16 at cable output (e.g. for protective hose connection)					C			
Fixed protective hose gland 3/8" or 5/16"					M			
Short circuit protection						G		
High temperature version up to +100 °C							H	
High temperature version up to +120 °C							H1	
Low temperature version from -40 °C							N	
Fixed connection cable*								
Plug M12x1 DC								S4
Plug M12x1 AC								S27
Offset oscillation frequency for row installation								F
Customer specific version								SA

* Connection cables are available in standard lengths of 2, 5, 10, 15 and 20 m made of PVC, PUR, silicone and PTFE.

Cable material	Temperature	Features
Silicone	-50 °C up to +180 °C	halogen free, flame-retardant, resistant to several oils, alcohols, lubricants and other chemical media, great flexibility
PTFE	-190 °C up to +260 °C	excellent resistance to acids, varnishes, oils, hydraulic fluids etc., hardly inflammable, low water absorption, weather and ozone resistant.