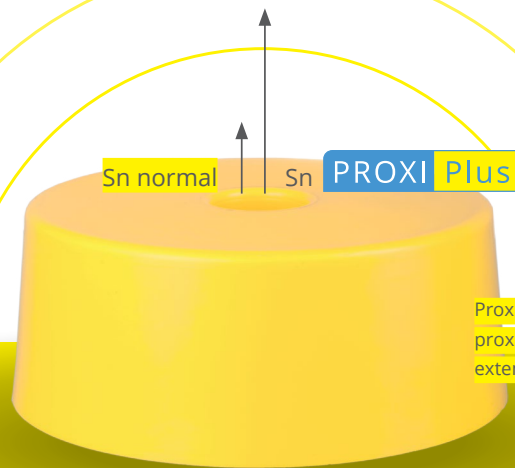


# **More** Room\* to Move with **PROXI Plus**

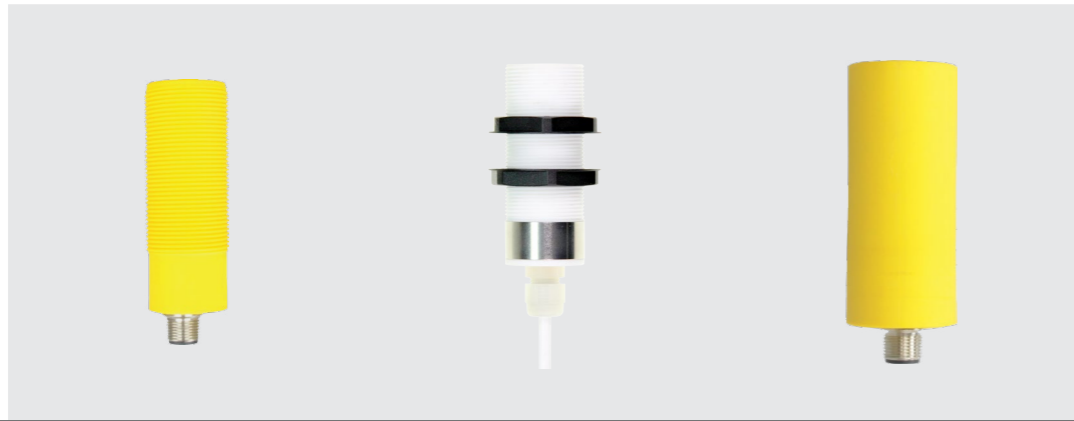


Proxi Plus – the inductive proximity switch with extended sensing distance

\* **more** sensing distance \* **more** possibilities  
\* **more** freedom \* **more** lifetime

**PROXI Plus**

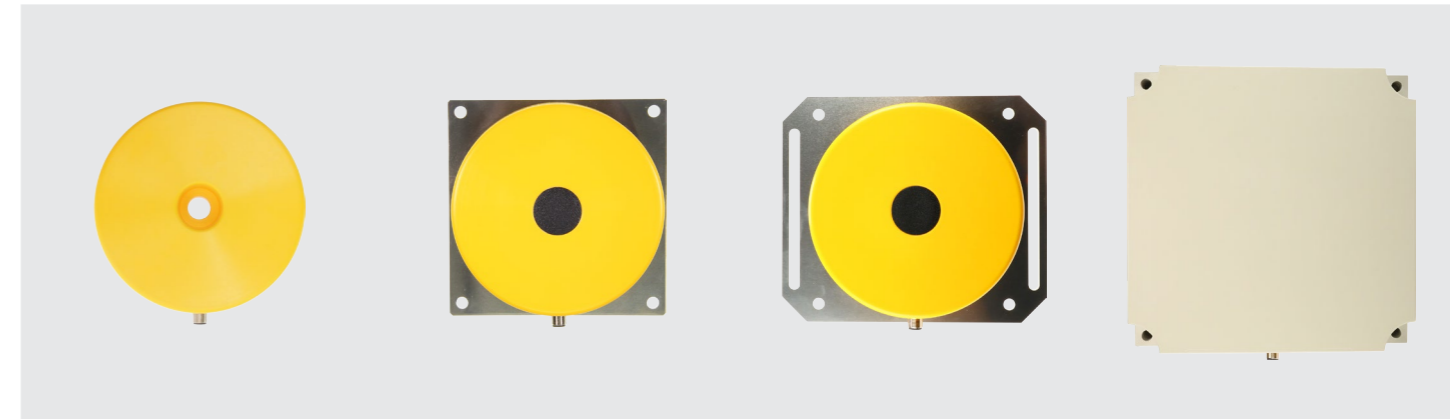
PROXIPlus – an innovation from the house of Proxitron.



Sensing distance Sn [mm]	30	29	35	34	55	80	90
Type	<b>IPL 030</b>	<b>IPLT 029</b>	<b>IPH 035</b>	<b>IPHT 034</b>	<b>IPH 055</b>	<b>IPK 080</b>	<b>IPJ 090</b>
Mounting	non flush	non flush	non flush	non flush	non flush	non flush	non flush
Sensing distance adjustable	yes	yes	yes	yes	yes	yes	yes
Housing size [mm]	M30 / L = 80	M32 / L = 80	Ø 34 / L = 80	Ø 35 / L = 80	Ø 54 / L = 68	80 x 80 x 40	Ø 80 / L = 67
Housing material	PBT	PTFE	PBT	PTFE	PBT	PBT	PBT
Protection class	IP 67	IP 68	IP 67	IP 68	IP 67	IP 67	IP 67
Ambient temperature	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Version with offset frequency	no	no	no	no	yes	yes	yes



Sensing distance Sn [mm]	90	105	150	150	150	150	180
Type	<b>IPJH 090</b>	<b>IPN 105</b>	<b>IPU 215</b>	<b>IPO 150</b>	<b>IPOH 150</b>	<b>IPON 150</b>	<b>IPC 180</b>
Mounting	non flush	non flush	non flush	non flush	non flush	non flush	non flush
Sensing distance adjustable	yes	yes	yes	yes	yes	yes	yes
Housing size [mm]	80 x 80 x 70	110 x 110 x 43	280 x 150 x 68	Ø 163 / H = 63	170 x 170 x 67	180 x 210 x 68	230 x 230 x 85
Housing material	PBT / aluminium	PBT	PBT / aluminium	PBT	PBT / aluminium	PBT / aluminium	PP / aluminium
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Version with offset frequency	yes	yes	no	yes	yes	yes	yes



**PROXI Polar** <sup>-°C</sup>

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

**PROXI Heat** <sup>+°C</sup>

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

**PROXI HT** <sup>+°C</sup>

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

**PROXI PTFE**

Proxitron sensors with PTFE housing for chemically aggressive environments.  
See "Inductive sensors PTFE housing" 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 80 mm relates to a steel plate with side length of 240 x 240 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:

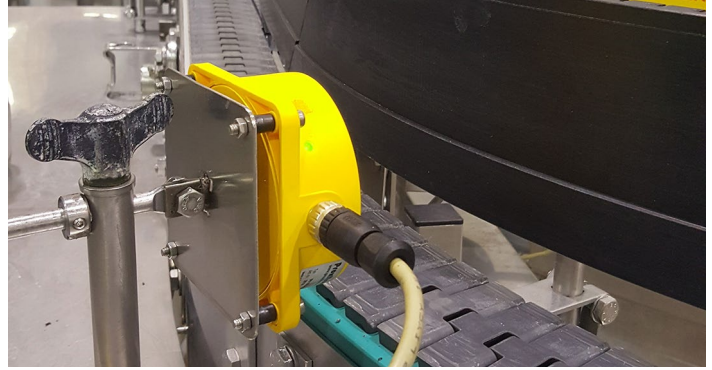
**max. possible sensing distance = sensing distance x correction factor**

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

The inductive ProxiPlus line offers more sensing distance as well as the possibility to use a smaller sensor design and still reach the same operating distance as before. The sensor will be integrated more easily in constructions with limited space. The extended range can be used to increase the mounting distance between the sensor and the object, which will reduce the risk of mechanical damage and ensure a longer lifetime. ProxiPlus sensors are well suited for the detection of small objects, as here the "plus" in terms of sensing distance is really appreciable.

- Contactless detection of metal objects
- More than 100% increased sensing distance
- Very good detection of small parts
- Same switching distance in a smaller design
- Unaffected by contamination
- Different supply voltages
- Various switching outputs
- Short circuit and reverse polarity protection
- Cable or plug connection
- Protection class up to IP68



## Type Code

Type (see table previous page)	e. g. IPL 030						
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	
Short circuit protection							G
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.