

## Inductive Proximity Switches

20 - 80 mm Sensing Distance

Non-contact detection of metal objects



Type Mounting

Housing material

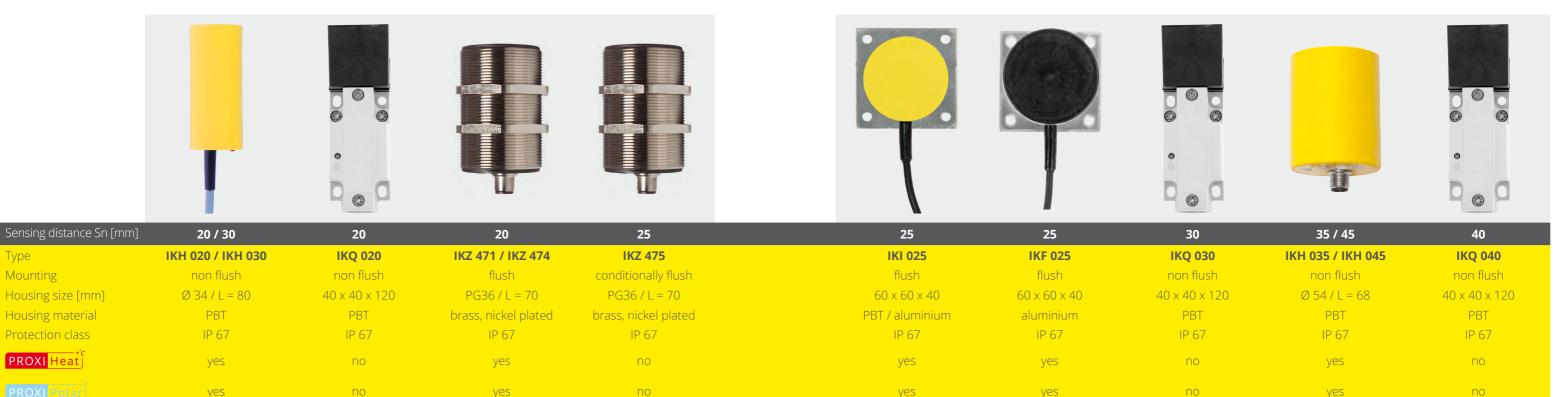
Protection class

PROXI Heat

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Sensing distance Sn [mm]	40 / 50	40	45	50	50 / 60 / 70	50 / 70	50 / 70	60 / 80	60 / 80
Туре	IKK 040 / IKK 051	IKG 040	IKD 045	IKRD 050	IKK 050 / 060 / 070	IKJH 050 / IKJH 070	IKJ 050 / IKJ 070	IKN 060 / IKN 080	IKNR 060 / IKNR 080
Mounting	flush	flush	flush	non flush	non flush	non flush	non flush	non flush	non flush
Housing size [mm]	80 x 80 x 40	80 x 80 x 40	110 x 110 x 55	80 x 120 x 30	80 x 80 x 40	80 × 80 × 70	Ø 80 / L = 67	150 x 108 x 58	162 x 150 x 58
Housing material	PBT	aluminium	aluminium	PBT	PBT	PBT	PBT	PBT / aluminium	PBT / aluminium
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
PROXI Heat	yes	yes	yes	yes	yes	yes	yes	yes	yes
	yes	yes	yes	yes	yes	yes	yes	yes	yes

PROXI Polar

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



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



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

See "ProxiPlus" brochure.



PROXI Plus

Proxitron sensors with PTFE housing for chemically aggressive environments. See "Inductive sensors PTFE housing" brochure Product line extension with increased switching distance in existing housing design. sensing distance. (for example: Sensing distance 50 mm relates to a steel plate with side length of 150 x 150 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

The sensing distance Sn describes the axial approaching of a square steel plate with its side length equal to three times the

correction factor

metal foil

stainless steel 0,5 ... 0,8

0,45

aluminium

nickel copper

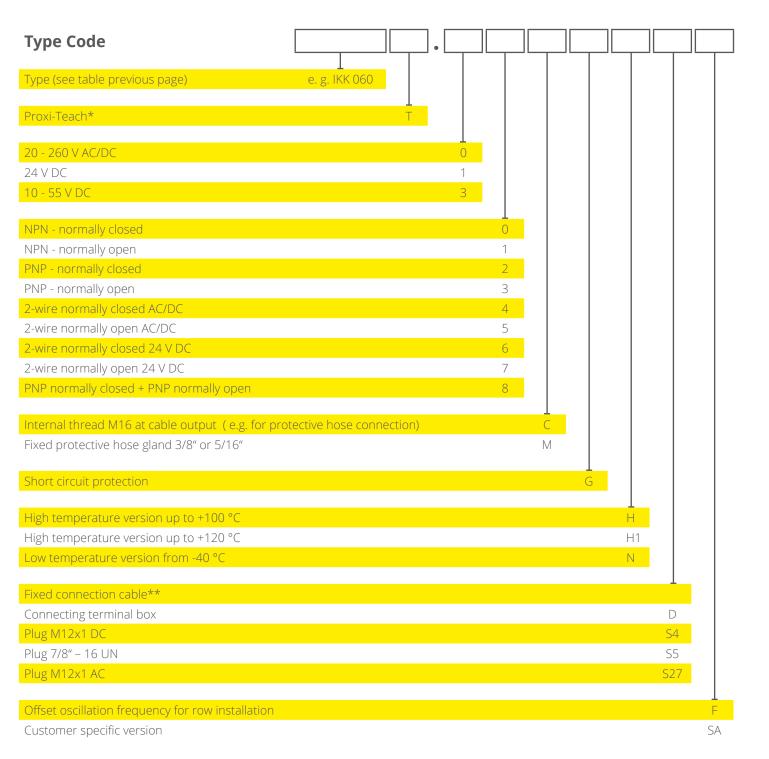
0,7

cast iron 0,93 ... 1,05

## General Information Inductive Proximity Switches

Inductive proximity switches detect metal objects contactless. Proxitron offers the widest variety of robustly constructed designs for standard industrial solutions and complex applications. Versions with extended temperature range and the comfortable setting with teach-in enable safe operation even under demanding conditions. Customized variants can be created, offering the ideal solution for every application.

- Contactless detection of metal objects
- Unaffected by contamination
- · Different supply voltages
- Various switching outputs
- Short circuit and reverse polarity protection
- ProxiHeat up to +120 °C
- ProxiPolar from -40 °C
- Cable or plug connection
- Protection class up to IP68



<sup>\*</sup> Proximity switches with Proxi-Teach™ recognise the existing installation conditions after one key is pressed and adjust the operating distance optimally. This enables safety operation under non-standard installation conditions. The effort upon startup is minimized.

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

