

Inductive Proximity Switches

IH



High operating ambient temperature up to 180 °C / 355 °F

The IH sensors are non-contact inductive proximity switches. They are rugged sensors that detect the presence of metal.

Features

- Operating ambient temperature up to 180 °C / 355 °F
- Stainless steel housing
- 3 wires, 10 to 35 V DC
- Flush and non flush mounting version
- LED option
- Waterproof (IP67)

Typical applications

The IH sensors proximity switches are suitable as non-contact sensors for controlling and monitoring positions in automated processes and machines. They are ideally suited for extreme environmental conditions with high ambient temperature.

Technical characteristics

Reference	IH12-03F-...	IH12-04NF-...	IH18-05F-...	IH18-08NF-...	IH30-10F-...	IH30-15NF-...
Mounting	Flush	Non-flush in metal	Flush	Non-flush in metal	Flush	Non-flush in metal
Housing type	M12		M18		M30	
Nominal Switching Distance Sn*	3 mm	4 mm	5 mm	8 mm	10 mm	15 mm
Max. commutation frequency	500 Hz	200 Hz	200 Hz	150 Hz	100 Hz	50 Hz

* : The nominal switching distance Sn is a theoretical value corresponding to the detection of a standard target in mild steel with axial approach. The switching point can be between 0.81 to 1.21 of Sn. To have a reliable detection it is recommended to keep the operating distance at 0.81 of Sn. If the target is made of a material other than mild steel, the switching distance will be reduced.

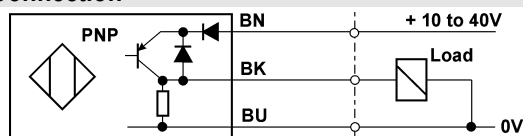
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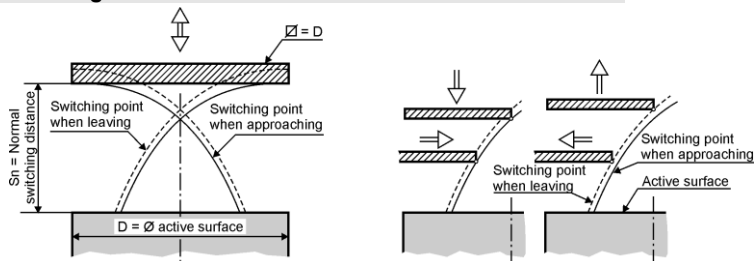
Reference	IH12-...-PO	IH12-...-POL	IH18-...-PO	IH18-...-POL	IH30-...-PO	IH30-...-POL
Housing type	M12		M18		M30	
Indicator	-	LED	-	LED	-	LED
Working temperature	-10°F to +300°F	-10°F to 265°F	-40°F to 355°F	-40°F to 265°F	-40°F to 355°F	-40°F to +265°F
Output current	80 mA		150 mA			
Short circuit protection	Yes *					
Connection , Voltage	3 wires, 10 to 40 V DC					
Output	PNP- Normally Open					
Voltage drop	2V					
Cable	2 m cable, 3 x 0.34 mm ² - Teflon					
Repeatability	< 5% of nominal switching distance					
Temperature drift	< 10% of nominal switching distance					
Switching hysteresis	1 to 15 % (5% typ) of nominal switching distance					
Protection	IP67					

* : in case of short circuit the LED will not operate.

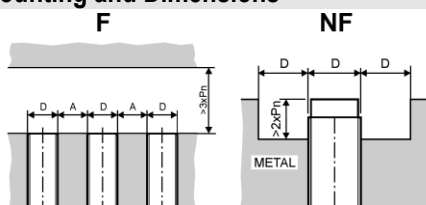
Connection



Switching distance

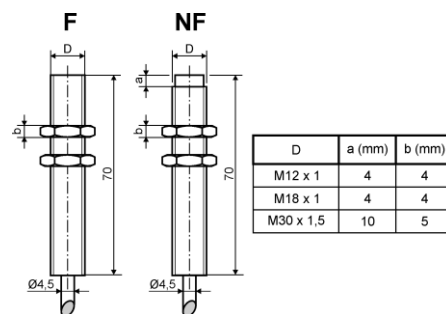


Mounting and Dimensions



D	A (mm) F	A (mm) NF
M12	12	27
M18	21	28
M30	37	80

F: flush mounting version, NF: non flush in metal mounting version



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Subject to change without prior notice

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