

# Proximity Sensors Inductive High Temperature, Nickel-plated Brass Housing Types IA, M12



- Nickel-plated brass housing
- Sensing distance:

Flush mounting: 2 mm or Non-flush mounting: 4 mm

- Power supply: 10 to 30 VDC
- Output: Transistor PNP, make switching
- High temperature range: -40° to +100°C
- Protection: Short-circuit
- LED-indication for output ON
- 2 m PUR cable or M12 plug

### **Product Description**

Inductive proximity sensor in M12 nickel-plated brass housing for high temperature applications.

Output configuration PNP, NO (make switching). Connection with 2 m PUR cable or M12 plug.

# Ordering Key IA 12 ASF 02 PO M1 HT-K

Type	
Housing style —	
Housing size —	
Housing material —	
Housing length ———	
Detection principle —	
Sensing distance	
Output type	
Output configuration —	
Connection —	
High temperature range —	

### **Type Selection**

Rated operating distance (S <sub>n</sub> )	Connection type	Ordering no. Transistor PNP, Make switching	
2.0 mm <sup>1)</sup>	Cable	IA 12 ASF 02 PO HT-K	
2.0 mm <sup>1)</sup>	Plug M12	IA 12 ASF 02 PO M1 HT-K	
4.0 mm	Cable	IA 12 ASN 04 PO HT-K	
4.0 mm	Plug M12	IA 12 ASN 04 PO M1 HT-K	
1) For flush mounting in n	netal		

Specifications

Rated operational volt. (U <sub>B</sub> )	10 to 30 VDC (ripple included)
Ripple	≤10%
Rated operational current (I <sub>e</sub> ) Continuous	≤ 200 mA @ + 25°C (+75°F)
No-load supply current (I <sub>o</sub> )	≤ 20 mA (ON)
Voltage drop (U <sub>d</sub> )	< 2,4 V (@ I <sub>max</sub> )
Protection	Short circuit
Frequency of operating cycles (f)	IA12ASF: 2 kHz IA12ASN: 1 kHz
Indication for output ON	LED, yellow
Sensing distance	IA12ASF: 2 mm IA12ASN: 4 mm

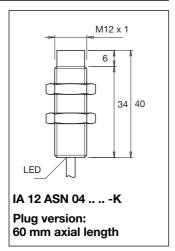
Effective operating dist. (S <sub>r</sub> )	$0.9 \; x \; S_n \leq S_r \leq 1.1 \; x \; S_n$
Usable operating dist. (S <sub>u</sub> )	$0.85 \ x \ S_r \leq S_u \leq 1.15 \ x \ S_r$
Ambient temperature	
Operating	-40° to +100°C (-40° to +212°F)
Storage	-45° to +105°C (-49° to +221°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Nickel-plated brass
CE-marking	Yes
Connection	Cable, 2 m, PUR, AWG 22 or Plug M12, CONH1A-xxx serie



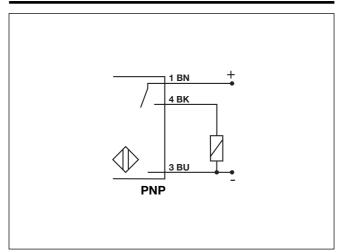
### **Dimensions**

# M12 x 1

IA 12 ASF 02 .. .. -K Plug version: 60 mm axial length



# **Wiring Diagram**



### **Installation Hints**

