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





#### Nickel-plated brass housing Sensing distance;

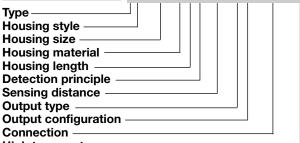
- Sensing distance: Flush mounting: 2 mm or Non-flush mounting: 4 mm
- Power supply: 10 to 30 VDC
- Output: Transistor PNP and NPN, normally open
- High temperature range: -40° to +100°C
- Protection: Short-circuit
- LED-indication for output ON
- 2 m PUR cable or M12 plug

## **Product Description**

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

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

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



High temperature range

#### **Type Selection**

Rated operating distance (S <sub>n</sub> )	Connection type	Ordering no. Transistor PNP, Normally open	Ordering no. Transistor NPN Normally open
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	IA 12 ASN 04 NO HT-K
4.0 mm	Plug M12	IA 12 ASN 04 PO M1 HT-K	
<sup>1)</sup> For flush mounting in m	netal		

#### **Specifications**

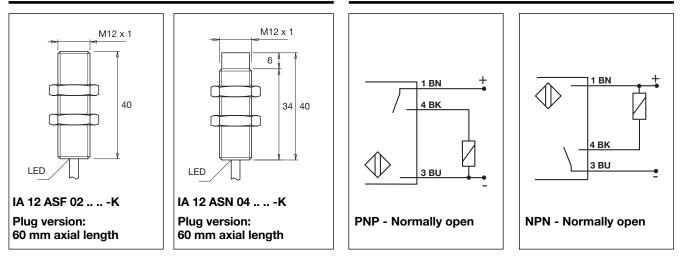
Rated operational volt. $(U_B)$	10 to 30 VDC (ripple included)	
Ripple	≤ 10%	
Rated operational current (l <sub>e</sub> )		
Continuous	≤ 200 mA @ + 25°C (+75°F)	
No-load supply current ( $I_o$ )	$\leq$ 20 mA (ON)	
Voltage drop (U <sub>d</sub> )	< 2,4 V (@ I <sub>max</sub> )	
Protection	Short circuit	
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	

$0.9 \; x \; S_n {\leq} S_r {\leq} 1.1 \; x \; S_n$
$0.85 \; x \; S_r \leq S_u \leq 1.15 \; x \; S_r$
-40° to +100°C (-40° to +212°F) -45° to +105°C (-49° to +221°F)
IP 67 (Nema 1, 3, 4, 6, 13)
Nickel-plated brass
Yes
Cable, 2 m, PUR, AWG 22 or Plug M12, CONH1A-xxx series



#### **Dimensions**

# Wiring Diagrams



## **Installation Hints**

