

Proximity Sensors Inductive

Short body, Stainless Steel Housing

Types IA, M5

5 years warranty

CARLO GAVAZZI



- Miniature stainless steel housing M5
- Short body
- Sensing distance: 1,2 mm
- Power supply: 10 to 30 VDC
- Output: Transistor NPN/PNP, make or break switching
- Protection: Transient and reverse polarity
- LED-indication for output ON
- 2 m PVC cable or M8 plug

Product Description

Miniature inductive proximity sensor with reduced body length. Output configuration for NPN/PNP with both NO and NC types as standard. M8 stainless steel housing. Connection with 2 m PVC cable or M8 plug.

Ordering Key

IA 05 BSF 10 NO M5

Ind. prox. switch	IA
Housing style	05
Housing size	BSF
Housing material	10
Housing length	NO
Detection principle	M5
Sensing distance	
Output type	
Output configuration	
Connection	

Type Selection

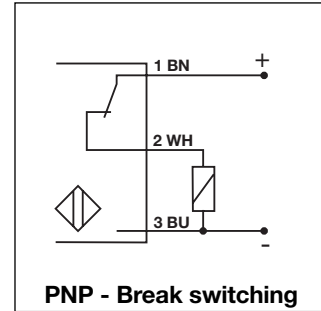
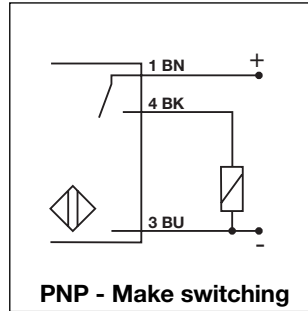
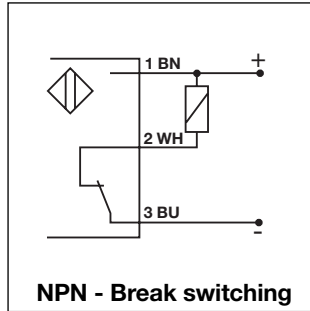
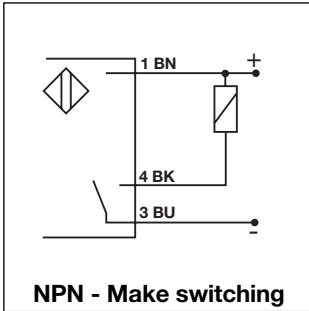
Rated operating dist. (S _n)	Conn. type	Ordering no. Transistor NPN Make switching	Ordering no. Transistor NPN Break switching	Ordering no. Transistor PNP Make switching	Ordering no. Transistor PNP Break switching
1.2 mm ¹⁾	Cable	IA 05 BSF 10 NO	IA 05 BSF 10 NC	IA 05 BSF 10 PO	IA 05 BSF 10 PC
1.2 mm ¹⁾	Plug	IA 05 BSF 10 NO M5	IA 05 BSF 10 NC M5	IA 05 BSF 10 PO M5	IA 05 BSF 10 PC M5

¹⁾ For flush mounting in metal

Specifications

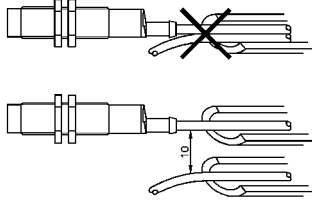
Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Ripple	≤ 10%	Housing material	Stainless steel, AISI 303
Rated operational current (I _e) Continuous	≤ 150 mA @ + 25°C (+75°F)	CE-marking	Yes
No-load supply current (I _o)	≤ 10 mA (ON)	Connection	2 m, PVC, AWG 26 M8, CONH5A-xxx Serie
Voltage drop (U _d)	< 2,5 V (@ I _{max})	Cable	
Protection	Transient and reverse polarity	Plug	
Frequency of operating cycles (f)	4000 Hz		
Indication for output ON	LED, yellow		
Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n		
Usable operating dist. (S _u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r		
Ambient temperature			
Operating	-25° to +70°C (-13° to +158°F)		
Storage	-30° to +75°C (-22° to +167°F)		

Wiring Diagrams

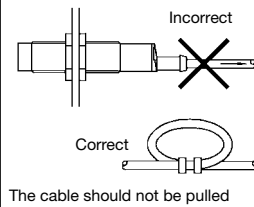


Installation Hints

To avoid interference from inductive voltage/current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables

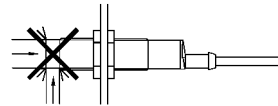


Relief of cable strain



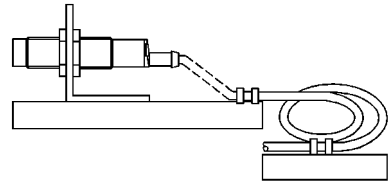
The cable should not be pulled

Protection of the sensing face



A proximity switch should not serve as mechanical stop

Switch mounted on mobile carrier



Any repetitive flexing of the cable should be avoided

Dimensions

