

Proximity Sensors Inductive Short body, Stainless Steel Housing Types IA, M5 w/short-circuit protection

5 years warranty

CARLO GAVAZZI



- Miniature stainless steel housing M5
- Short body
- Sensing distance: 1.0 mm
- Power supply: 10 to 30 VDC
- Output: Transistor NPN/PNP, make or break switching
- Protection: Transients, reverse polarity and short-circuit protection
- 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. M5 stainless steel housing. Connection with 2 m PVC cable or M8 plug.

Ordering Key

IA 05 BSF 10 NO M5 P

Ind. prox. switch	_____
Housing style	_____
Housing size	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Sensing distance	_____
Output type	_____
Output configuration	_____
Connection	_____
Protected	_____

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
1.0 mm ¹⁾	Cable	IA 05 BSF 10 NO P	IA 05 BSF 10 NC P	IA 05 BSF 10 PO P	IA 05 BSF 10 PC P
1.0 mm ¹⁾	Plug	IA 05 BSF 10 NO M5 P	IA 05 BSF 10 NC M5 P	IA 05 BSF 10 PO M5 P	IA 05 BSF 10 PC M5 P

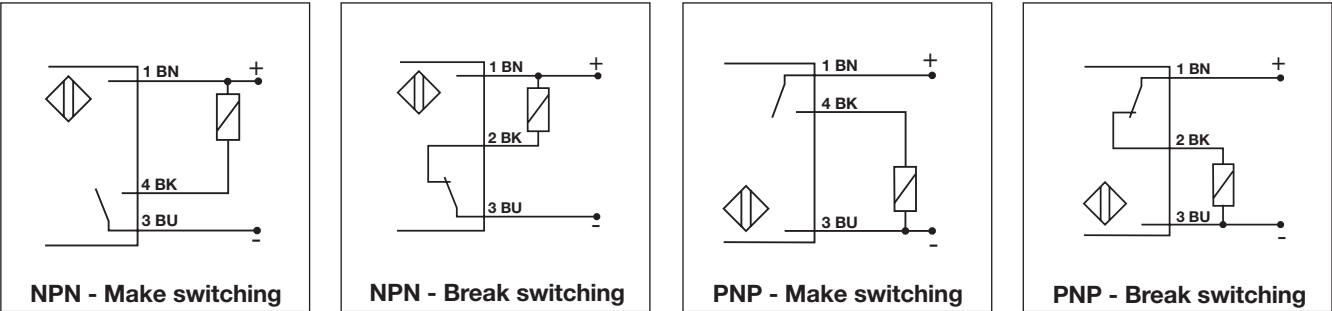
¹⁾ For flush mounting in metal

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	≤ 200 mA	CE-marking	Yes
No-load supply current (I _o)	≤ 10 mA (ON)	Connection	2 m, PVC, oil proof M8, CONH5A-xxx Serie
Voltage drop (U _d)	< 1.0 V (@ I _{max})	Cable	
Protection	Transients, reverse polarity and short-circuit protection	Plug	
Frequency of operating cycles (f)	2000 Hz		
Indication for output ON	LED, red		
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 Incorrect Correct 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
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Dimensions

