Proximity Sensors Inductive Long Body, Stainless Steel Types IA, M8



- **Miniature stainless steel housing (cable or M8/M12 plug)**
- **Long body**
- **Sensing distance: 1,5 mm or 2,5 mm**
- **Power supply: 10 to 30 VDC**
- **Output: Transistor NPN/PNP, normally open or normally closed**
- **Protection: Short-circuit**
- **LED-indication for output ON**
- **2 m PVC cable, M8 or M12 plug**

Product Description

Inductive proximity sensor with long body. Output configuration for NPN/PNP with both NO and NC types as standard. M8 stainless steel housing with 2 m PVC cable or M8/M12 plug.

Ordering Key

IA 08 BLF 15 NO M5

- **Type: Ind. prox. switch**
- **Housing style**
- **Housing size**
- **Housing material**
- **Housing length**
- **Detection principle**
- **Sensing distance**
- **Output type**
- **Output configuration**
- **Connection**

Type Selection

Rated operating dist. (S_n)	Conn. type	Ordering no. Transistor NPN Normally open	Ordering no. Transistor NPN Normally closed	Ordering no. Transistor PNP Normally open	Ordering no. Transistor PNP Normally closed
1.5 mm [1]	Cable	**IA 08 BLF 15 NO**	**IA 08 BLF 15 NC**	**IA 08 BLF 15 PO**	**IA 08 BLF 15 PC**
1.5 mm [1]	Plug M8	**IA 08 BLF 15 NO M5**		**IA 08 BLF 15 PO M5**	**IA 08 BLF 15 PC M5**
2.5 mm	Cable	**IA 08 BLN 25 NO**	**IA 08 BLN 25 NC**	**IA 08 BLN 25 PO**	**IA 08 BLN 25 PC**
2.5 mm	Plug M8	**IA 08 BLN 25 NO M5**		**IA 08 BLN 25 PO M5**	**IA 08 BLN 25 PC M5**
1.5 mm [1]	Plug M12	**IA 08 BLF 15 NO M1**	**IA 08 BLF 15 NC M1**	**IA 08 BLF 15 PO M1**	**IA 08 BLF 15 PC M1**
2.5 mm	Plug M12	**IA 08 BLN 25 NO M1**	**IA 08 BLN 25 NC M1**	**IA 08 BLN 25 PO M1**	**IA 08 BLN 25 PC M1**

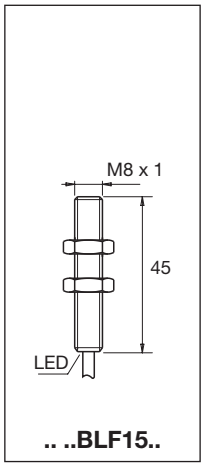
[1] For flush mounting in metal

Specifications

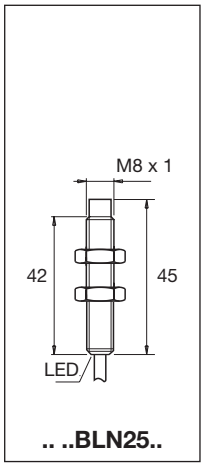
Rated operational volt. (U_B)	10 to 30 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I_e) Continuous	≤ 200 mA @ + 25°C (+75°F)
No-load supply current (I_o)	≤ 10 mA (ON)
Voltage drop (U_d)	< 2,5 V (@ I_{max})
Protection	Short circuit
Frequency of operating cycles (f)	2000 Hz
Indication for output ON	LED, yellow
Repeat Accuracy	≤ 5%
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 Storage	 -25° to +70°C (-13° to +158°F) -30° to +75°C (-22° to +167°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Stainless steel, AISI 303
CE-marking	Yes
Connection IA08BL....O/C IA08BL....O/C M5 IA08BL....O/C M1	 Cable, 2 m, PVC, AWG 26, oil proof Plug M8, CONB53 series Plug M12, CONB1 series
Weight (cables/nuts included)	AI... 36 g AI...M1/M5 11 g

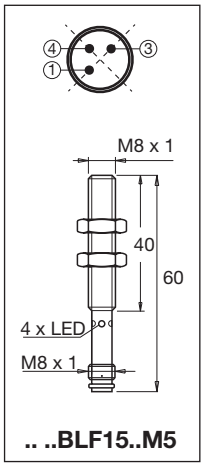
Dimensions



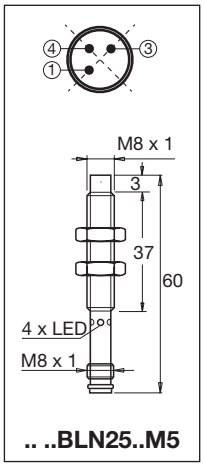
.. ..BLF15..



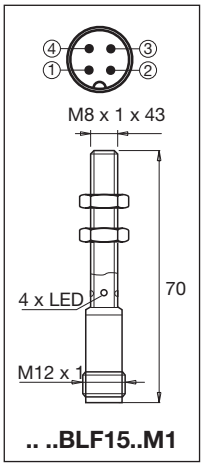
.. ..BLN25..



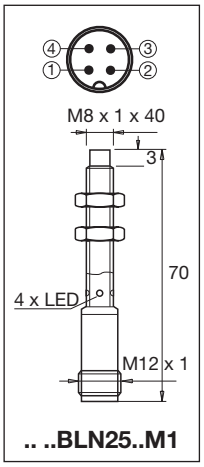
.. ..BLF15..M5



.. ..BLN25..M5



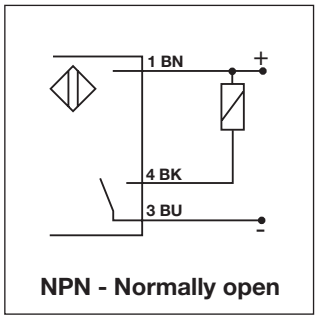
.. ..BLF15..M1



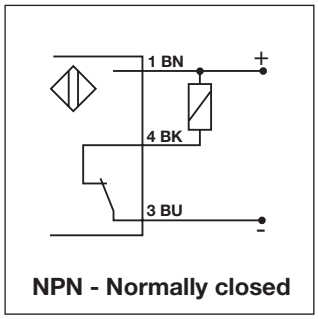
.. ..BLN25..M1

Wiring Diagrams

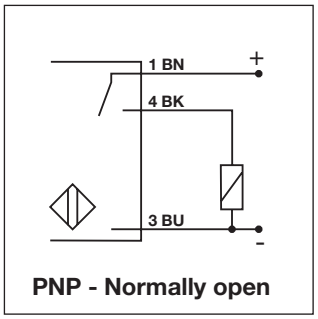
IA08BL..... - IA08BL.....M5



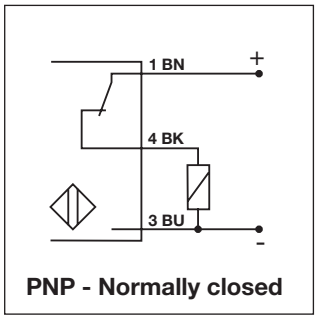
NPN - Normally open



NPN - Normally closed

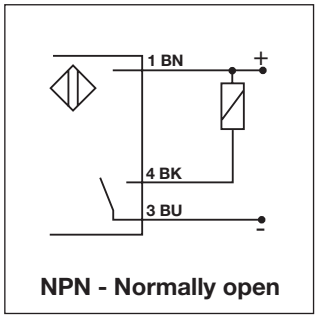


PNP - Normally open

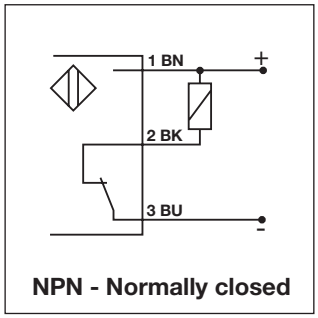


PNP - Normally closed

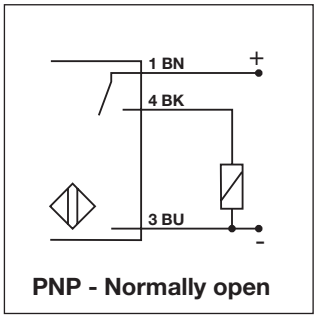
IA08BL.....M1



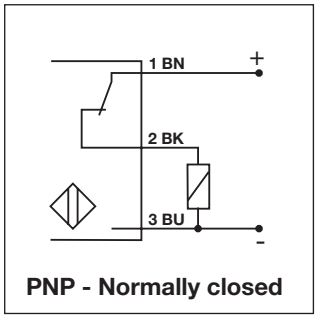
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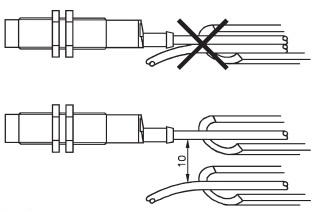
PNP - Normally open



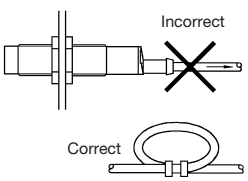
PNP - Normally closed

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

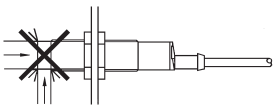


Relief of cable strain



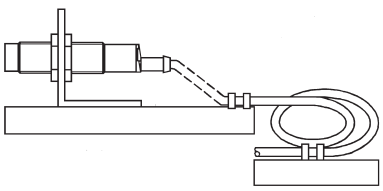
The cable should not be pulled

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