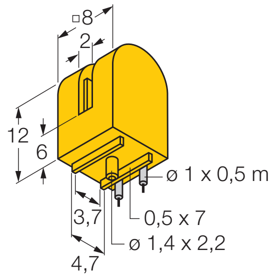
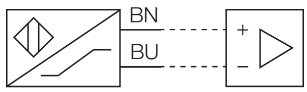
Inductive sensor
slot-type
Si2-K08-Y1



- **slot sensor, 8mm high**
- **plastic, Vestamide**
- **2-wire DC, nom. 8.2 VDC**
- **output according to DIN EN 60947-5-6 (NAMUR)**
- **cable connection**

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Si2-K08-Y1
Ident-No.	1007700
Slot width	2 mm
Hysteresis (switching distance)	1... 10 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Voltage	nom. 8,2 VDC
Current consumption (off-state)	≥ 2,1 mA
Current consumption (on-state)	≤ 1,2 mA
Max. switching frequency	≤ 2,5 kHz
Output function	2-wire, NAMUR
Approval according to	KEMA 01 ATEX 1264X
Internal inductivity (L_i) / capacitivity (C_i)	41 nF / 266 µH
	* Value for pre-fixed cable up to 10m
Marking of device	Ex II 1 G EEx ia IIC T6
	(max. U_i = 15V, I_i = 60mA, P_i = 100mW)
Housing style	slot sensor; K08
Dimensions	11 x 15 x 8 mm
Housing material	plastic, Vestamid
Active face	plastic, Vestamid
Wiring	cable
Cable	Ø 4, LifY, PVC, 0,5 m
Cable cross section	2 x 0,08 mm^2
Leads 1	2 x 1 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67

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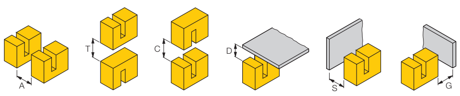
Mounting instructions	minimum gap
Gap D	0 mm
Gap T	5 mm
Gap S	0 mm
Gap G	0 mm
Gap A	15 mm
Gap C	15 mm



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Accessories

Typ	Ident-No.	Description	Dimension drawing
IM1-22EX-R/24VDC	7541210	Isolating switching amplifier, two channels; input for NAMUR signals; optional wire-break and short-circuit monitoring function; selectable normally open or normally closed performance; removeable terminal blocks; 18 mm wide; supply voltage 24 VDC; further isolating switching amplifiers in our "Interface Technology" catalogue.