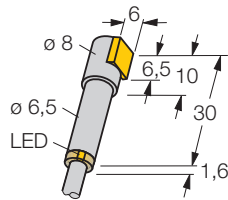


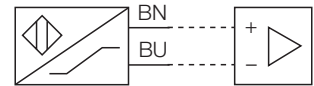
Inductive sensor

Bi1,5-HS865-Y1



- smooth barrel, 6,5 mm diameter
- side active face
- chrome-plated brass
- 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	Bi1,5-HS865-Y1
Ident-No.	1004201
Rated operating distance S_n	1,5 mm
Mounting mode	flush
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	≤ 5 kHz
Output function	2-wire, NAMUR
Approval according to	KEMA 02 ATEX 1090X
Internal inductivity (L_i) / capacitance (C_i)	150 nF / 150 μH *
	* Value for pre-fixed cable up to 30m
Marking of device	Ⓔ II 2 G EEx ia IIC T6 (max. U_i = 15 V, I_i = 60 mA, P_i = 130 mW)
Housing style	smooth barrel; 6,5 mm
Dimensions	32 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PA12-GF30
Wiring	cable
Cable	Ø 4, LifYY, PVC, 2 m
Cable cross section	2 x 0,25 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67

Inductive sensor

Bi1,5-HS865-Y1

Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn
Diameter of active face B	Ø 6,5 mm

Bi1,5-HS865-Y1

Accessories

Diagram of the rear panel of the 1000 Series Power Supply showing connections for:

- Power
- Switching status
- Channel 1 Output mode
- Wire-break monitoring
- Short-circuit monitoring
- Channel 2