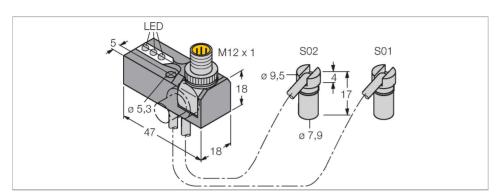


NI2-BTM-0.16-BDS-2AP6X3-H1141/S34 Inductive Sensor - Monitoring Kit for Power Clamps



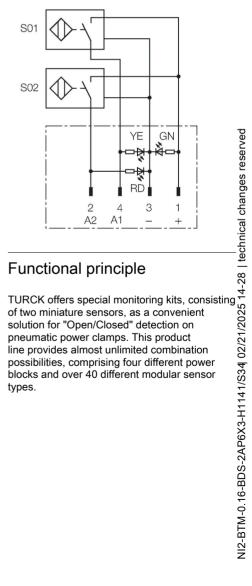
Technical data

Туре	NI2-BTM-0.16-BDS-2AP6X3-H1141/S34
ID	1650120
Special version	S34 Corresponds to:Weld-field immune proximity sensors
General data	
Rated switching distance	2 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Thermal
Voltage drop at I _e	≤ 1.8 V
Wire break/reverse polarity protection	Complete
Output function	4-wire, NO contact, PNP
Smallest operating current	≥ 1 mA
Switching frequency	0.03 kHz

Features

- Rectangular, height 18 mm
- Plastic, PP GR-20
- Mounting instructions and minimum distances acc. to BTM specification must be observed when mounted in metal
- ■Blind hole: Ø 10 mm; depth 4 mm
- Resistant to magnetic fields (weld-resistant), for DC and AC fields up to 100 mT
- ■2 x NO contact, PNP output
- ■DC 4-wire, 10...30 VDC

Wiring diagram



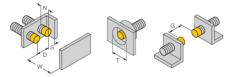


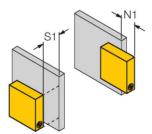
Technical data

Mechanical data	
Design	Monitoring kit for power clamps, BTM
Dimensions	47 x 18 x 18 mm
Housing material	Plastic, PP GR-20
Active area material	Plastic, PP GR-20
Electrical connection	Connector, M12 × 1
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.16 m
Core cross-section	3 x 0.08 mm²
Litz wire	40 x0.05 mm
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
1 OWER OIL III GIOGUIOTI	LLD, OICCII

Mounting instructions

Mounting instructions/Description





Distance D	3 x B
Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Width active area B	6.5 mm

Please note, non-flush mounting of this sensor is obligatory.

The following conditions allow semi-flush mounting:

N1 = 0 mm and S1 = 1 mm or

N1 = 1 mm and S1 = 0 mm

These values apply for mounting in aluminium

N1 = 0 mm and S1 = 5 mm or

N1 = 5 mm and S1 = 0 mm

These values apply for mounting in St37.