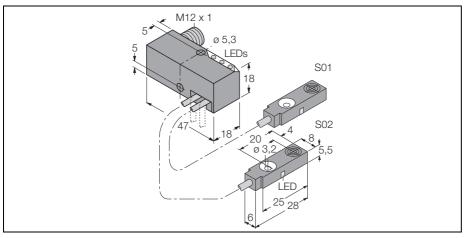
inductive sensor power clamp monitor Bi2-Q5,5-0,27-BS-2AP6X3-H1141/S34

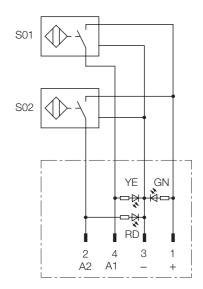




Туре	Bi2-Q5,5-0,27-BS-2AP6X3-H1141/S34
Ident-No.	1613006
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured sensing range	\leq (0,81 x Sn) mm
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $Al \sim 0.3$
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3 15 %
Ambient temperature	-25+ 70 °C
Operating voltage	10 30VDC
Residual ripple	\leq 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 20 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	4-wire, normally open, pnp
Switching frequency	≤0.03 kHz
Housing	monitoring kit for clamping technology, Q5.5
Dimensions	47 x 18 x 18 mm
Housing material	plastic, PBT-GF20-V0
Material active face	plastic, PP-GF20
Connection	connectors, M12 x 1
Cable quality	Ø 2, grey, Lif9Y-11Y, PUR, 0.27 m
Cable cross section:	$3 \times 0.08 \text{mm}^2$
Litz wire	$40 \times 0.05 \text{mm}^2$
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	2 x LED yellow / red

- power block with two connected sensors and LED's
- adaptable block position, 0°...90°, with cross drilling for flexible cable orientation
- Plastic, PBT-GF20-V0
- magnetic field immunity (welding resistance) to DC and AC fields
- 2 x normally open, pnp output
- 4-wire DC, 10...30 VDC

Wiring diagram



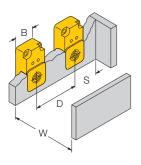
Functional principle

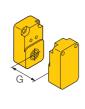
TURCK offers special monitoring kits, consisting of two miniature sensors, as a convenient solution for "Open/Closed" detection on pneumatic power clamps. This product line provides almost unlimited combination possibilities, comprising four different power blocks and over fourty different modular sensor types.

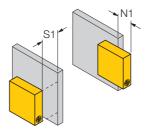


inductive sensor power clamp monitor Bi2-Q5,5-0,27-BS-2AP6X3-H1141/S34

Mounting instructions	minimum distances	
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 of the active face B	6.5 mm	







Care has to be taken that this sensor is non-flush mounted.

Parial flush mounting is also possible under the following conditions:

Distance N1 = 0 mm and simultaneous distance S1 = 1 mm or

Distance N1 = 1 mm and simultaneous distance S1 = 0 mm

The values are valid for mounting in aluminium.

Distance N1 = 0 mm and simultaneous distance S1 = 5 mm or

Distance N1 = 5 mm and simultaneous distance S1 = 0 mm

The values are valid for mounting in St37.