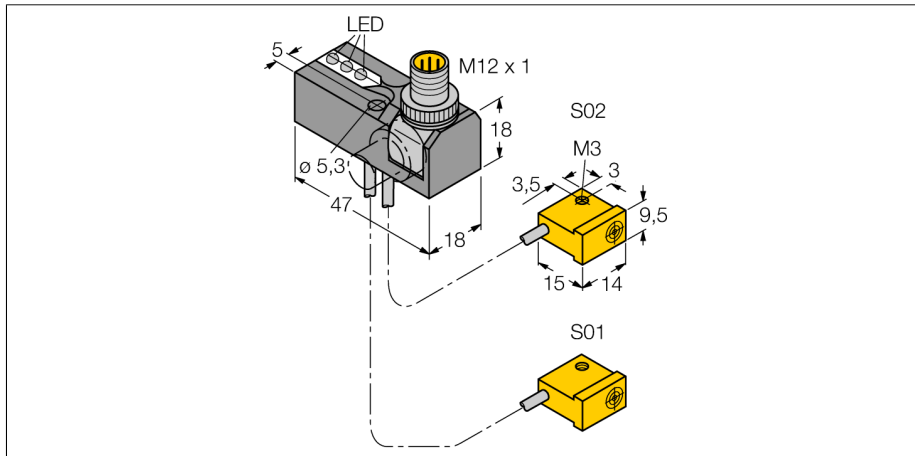


**Inductive sensor
power clamp monitor
NI2-Q9,5-0,1-BDS-2AP6X3-H1141/S34**

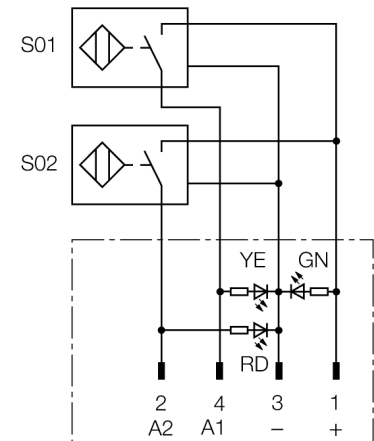
TURCK

Industrial
Automation



- Rectangular, height 18 mm
- Plastic, Trogamid
- Adaptable connector position
- Magnetic field immune (weld-resistant) to DC and AC fields
- 2 x NO contacts, PNP output
- DC 4-wire, 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 forty different modular sensor types.

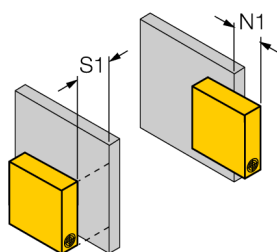
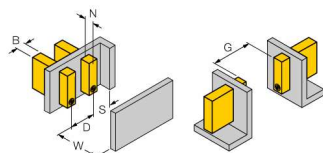
Type code	NI2-Q9,5-0,1-BDS-2AP6X3-H1141/S34
Ident no.	1650099
Rated operating distance Sn	2 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n) \text{ mm}$
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	$\leq 2 \% \text{ of full scale}$
Temperaturdrift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
Residual ripple	$\leq 10 \% U_{ss}$
DC rated operational current	$\leq 150 \text{ mA}$
No-load current I_0	$\leq 20 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Rated insulation voltage	$\leq 0.5 \text{ kV}$
Short-circuit protection	yes/ cyclic
Voltage drop at I_0	$\leq 1.8 \text{ V}$
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, NO contact, PNP
Smallest operating current I_m	$\leq 1 \text{ mA}$
Switching frequency	0.03 kHz
Design	monitoring kit for clamping technology, Q9.5
Dimensions	47x 18x 18 mm
Housing material	Metal, Trogamid
Material active face	Plastic, PP
Connection	male, M12 x 1
Cable quality	2 mm, grey, Lif9Y-11Y, PUR, 0.1 m
Cable cross section	3 x 0.08 mm ²
Litz wire	40x0.05mm ²
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
Operating voltage	LED green
Switching state	●● yellow / red

**Inductive sensor
power clamp monitor
NI2-Q9,5-0,1-BDS-2AP6X3-H1141/S34**

TURCK

Industrial
Automation

Mounting instructions / Description	minimum distances
Distance D	$3 \times B$
Distance W	$3 \times S_n$
Distance S	$1.5 \times B$
Distance G	$6 \times S_n$
Distance N	$2 \times S_n$
Width of the active face B	6.5 mm



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

The following conditions allow semi-flush mounting:

$N1 = 0 \text{ mm}$ and $S1 = 1 \text{ mm}$ or

$N1 = 1 \text{ mm}$ and $S1 = 0 \text{ mm}$

These values apply for mounting in aluminium

$N1 = 0 \text{ mm}$ and $S1 = 5 \text{ mm}$ or

$N1 = 5 \text{ mm}$ and $S1 = 0 \text{ mm}$

These values apply for mounting in St37.