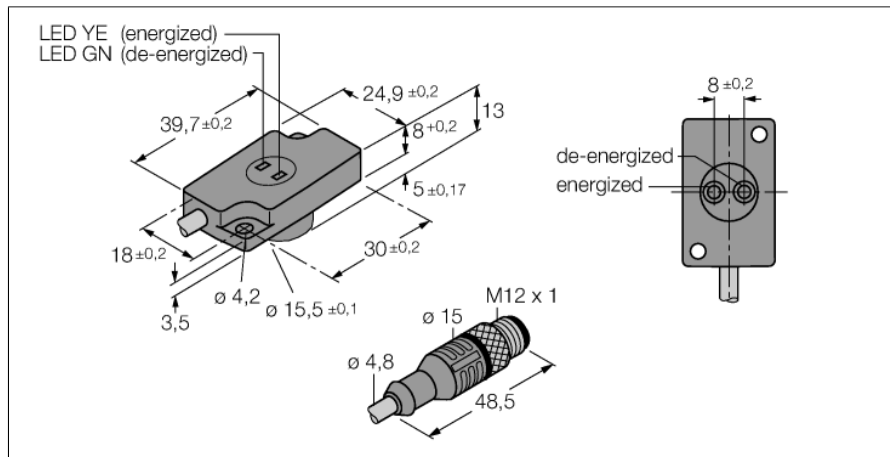


Inductive Sensor (Radial) Monitoring Kit for Power Clamps NI1.5-KSR13R-2AD4X2-0.2-RS4.4T/S34



- Compact power clamp monitoring KSR13R with two sensors and LEDs
- Active face, radial
- Plastic, PBT-GF20-V0, black
- Mounting holes with metal sleeves
- Cable: Irradiation crosslinked PUR
- Resistant to magnetic fields (weld-resistant), for DC and AC fields
- Acc. to standard EN 60947-5-2
- Acc. to standard EN 61000-4-3
- Acc. to standard E03.75.020.N (7.2.6.1 CEM)
- DC 4-wire, 10...65 VDC
- 2 x NO
- M12 x 1 male connector

Type	NI1.5-KSR13R-2AD4X2-0.2-RS4.4T/S34
ID	4430121

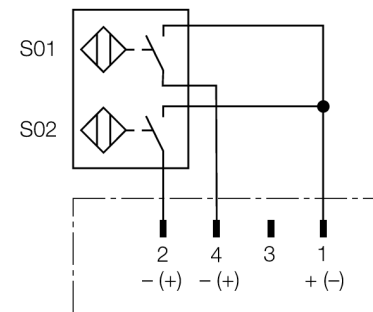
Special version	S34 Corresponds to: Resistant to magnetic fields
-----------------	--

General data	
Rated switching distance S_n	1.5 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	1...15 %

Electrical data	
Operating voltage U_o	10...65 VDC
Ripple U_{os}	$\leq 10\% U_{Bmax}$
DC rated operating current I_o	≤ 100 mA
Residual current	≤ 0.6 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_o	≤ 5 V
Output function	3-wire, NO contact, 2-wire
Smallest operating current I_m	≥ 3 mA
	for each sensor
Switching frequency	0.25 kHz

Mechanical data	
Design	Monitoring Kit for Spanners, KSR13
Dimensions	40 x 25 x 13 mm
Housing material	Plastic, PBT-GF20-V0
Active area material	Plastic, PBT
Electrical connection	Connector, M12 x 1
Cable quality	$\varnothing 4.8$ mm, Orange, D12YSL11X-OB, PUR, 0.2 m
Core cross-section	4 x 0.34 mm ²

Wiring Diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

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
Switching state	
2 × LEDs, Green/yellow	