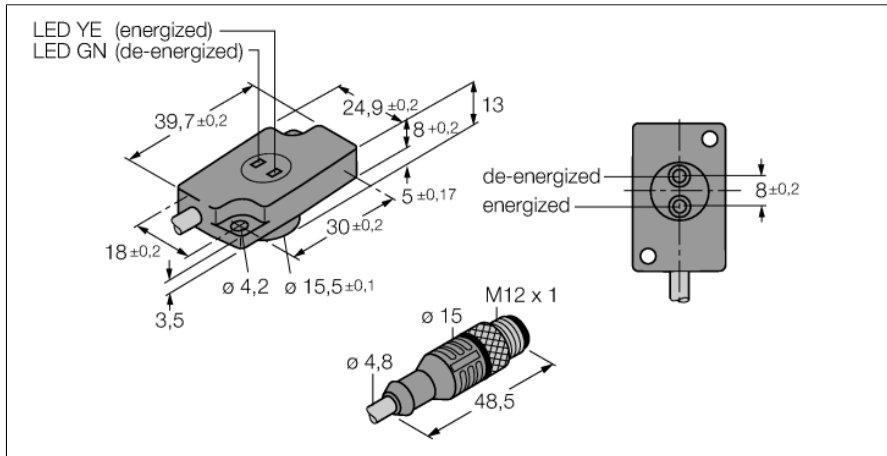


**Inductive sensor (axial)
power clamp monitor
NI1,5-KSR13A-2AD4X2-0,2-RS4.4T/S34**



- Compact power clamp monitoring KSR13A with two sensors and LEDs
- Active face, axial
- Plastic, PBT-GF20-V0, yellow
- Mounting holes with stainless steel sleeves
- Cable: Irradiation crosslinked PUR
- Resistant to DC and AC fields (weld resistant)
- Acc. to standard EN 60947-5-2
- Acc. to standard EN 61000-4-3
- Acc. to E03.75.020.N (7.2.6.1 CEM)
- 4-wire DC, 10...65 VDC
- 2 x NO contact
- Male M12 x 1

Type code NI1,5-KSR13A-2AD4X2-0,2-RS4.4T/S34
Ident no. 4430122

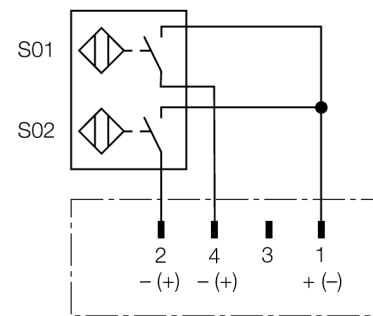
Rated operating distance Sn 1.5 mm
Mounting condition non-flush
Assured sensing range ≤ (0,81 x Sn) mm
Correction factors St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability ≤ 2 % of full scale
Temperature drift 10 %
Hysteresis 1...15 %
Ambient temperature -25...+70 °C

Operating voltage 10...65VDC
Residual ripple ≤ 10 % U_{ss}
DC rated operational current ≤ 100 mA
Residual current ≤ 0.6 mA
Rated insulation voltage ≤ 0.5 kV
Short-circuit protection yes/ cyclic
Voltage drop at I_s ≤ 5 V
Output function 3-wire, NO contact, 2-wire
Smallest operating current I_m ≤ 3 mA
Switching frequency for each sensor 0.25 kHz

Design monitoring kit for clamping technology, KSR13
Dimensions 40 x 25 x 13 mm
Housing material metal, PBT
Material active area Plastic, PBT
Connection male, M12 x 1
Cable quality 4.8 mm, orange, D12YSL11X-OB, PUR, 0.2 m
Cable cross section 4 x 0.34 mm²
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 LED green / yellow

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.