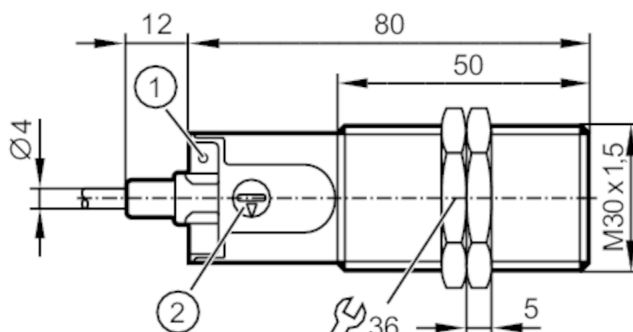


Capacitive sensor

KI-3250NBNKG/SL/1P/IO



- 1 LED yellow Switching status
2 potentiometer Sensing range



Product characteristics

Electrical design	NPN
Output function	normally closed
Sensing range [mm]	0.5...40
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 92

Application

Medium temperature [°C]	-25...110
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 22
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	30
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	0.5...40
Sensing range adjustable	yes
Factory setting sensing range [mm]	25
Real sensing range Sr [mm]	25 ± 10 %

Accuracy / deviations

Hysteresis [% of Sr]	1...15
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KI5302



Capacitive sensor

KI-3250NBNKG/SL/1P/IO

Switch-point drift	[% of Sr]	-15...15	
Interfaces			
Communication interface	IO-Link		
Transmission type	COM2 (38,4 kBaud)		
IO-Link revision	1.1		
SDCI standard	IEC 61131-9		
Profiles	Smart Sensor: Process Data Variable; Device Identification		
SIO mode	yes		
Required master port class	A		
Min. process cycle time	[ms]	20	
IO-Link functions (acyclical)	application specific tag; operating hours counter; normally open / normally closed (configurable); PNP / NPN (parametrierbar); Switch point setting; Hysteresis		
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection	IP 65; IP 67; IP 69K		
Tests / approvals			
EMC	EN 61000-4-2	30 kV AD / 4 kV CD	
	EN 61000-4-3	10 V/m	
	EN 61000-4-4	2 kV	
	EN 61000-4-6	10 V	
	EN 55011	class B	
Vibration resistance	DIN EN 60947-5-2	1 mm amplitude, vibration duration 5 min., 30 min. per axis with resonance or 55 Hz	
Shock resistance	DIN EN 60947-5-2	30 g 6 shocks / 11 ms half-sine (x, y, z)	
MTTF	[years]	896.74	
UL approval	Ta	-25...60 °C	
	Enclosure type	Type 1	
	voltage supply	Limited Voltage/Current	
	UL approval number	D002	
	File number UL	E174191	
Mechanical data			
Weight	[g]	97	
Housing	Threaded type		
Mounting	non-flush mountable		
Dimensions	[mm]	M30 x 1.5 / L = 92	
Thread designation	M30 x 1.5		
Material	PBT; PC; POM		
Displays / operating elements			
Display	Switching status	1 x LED, yellow	
Accessories			
Items supplied	lock nuts: 2		
Remarks			
Pack quantity	1 pcs.		

KI5302



Capacitive sensor

KI-3250NBNKG/SL/1P/IO

Electrical connection

Cable: 2 m, PUR, Ø 4 mm; 3 x 0.34 mm²

Connection



BK: OUT / IO-Link
Core colors :
BN = brown
BU = blue
BK = black