

KG5300



Capacitive sensor

KG-3150NANKG/SL/1P/IO



- 1 LED yellow Switching status
- 2 potentiometer Sensing range



Product characteristics		
Electrical design		NPN
Output function		normally open
Sensing range [mm]		0.5...30
Communication interface		IO-Link
Housing		Threaded type
Dimensions [mm]		M18 x 1 / L = 92.5
Application		
Medium temperature [°C]		-25...110
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 open
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 proof		yes
Overload protection		yes
Monitoring range		
Sensing range [mm]		0.5...30
Sensing range adjustable		yes
Factory setting sensing range [mm]		15
Real sensing range Sr [mm]		15 ± 10 %
Accuracy / deviations		
Hysteresis [% of Sr]		1...15

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Switch-point drift	[% of Sr]	-15...15
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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]	1269
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	D004
	File number UL	E174191

Mechanical data

Weight	[g] 62
Housing	Threaded type
Mounting	non-flush mountable
Dimensions	[mm] M18 x 1 / L = 92.5
Thread designation	M18 x 1
Material	PBT; PC; POM
Tightening torque	[Nm] 8

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR, Ø 4 mm; 3 x 0.34 mm²

Connection



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