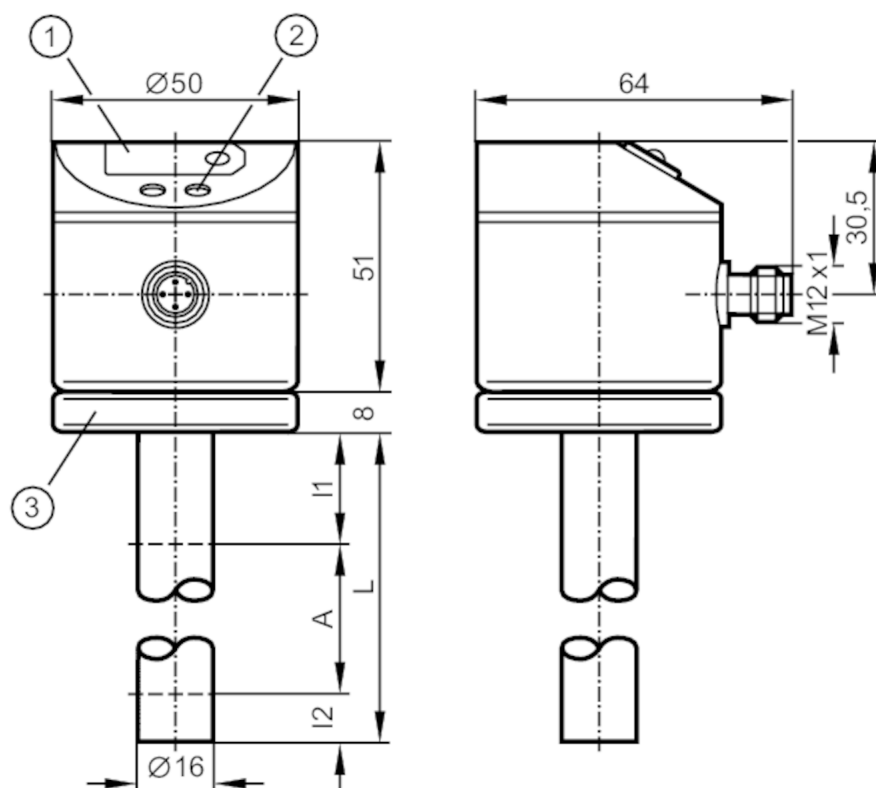




Continuous level sensor with overspill monitoring

LK0472B-B-00KUPKG/US/WHG

Please see the technical note under "Downloads"



- 1 7-segment LED display
- 2 programming buttons
- 3 housing connection with cable lug for cable 1.5...2.5 mm²



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Probe length L [mm]	472

Application

Special feature	Gold-plated contacts
Media	hydrous coolants; oils; water; media similar to water
Dielectric constant of the medium	> 2
Cannot be used for	extremely conductive media; adhering media; granulates; bulk material; acids; alkali
Tank pressure [bar]	0.5; (only for applications without pressure)
Coolants	
Medium temperature [°C]	0...35
Oil	
Medium temperature [°C]	0...65
Water	
Medium temperature [°C]	0...35



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Electrical data		
Operating voltage	[V]	12...30 DC
Current consumption	[mA]	< 60
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	3
Measuring principle		capacitive
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Probe length L	[mm]	472
Active range A	[mm]	390
Inactive range I1 / I2	[mm]	53 / 30
Setting range		
Set point SP	[mm]	40...390
Reset point rP	[mm]	35...385
In steps of	[mm]	5
Hysteresis	[mm]	5
Overflow switch point OP	[mm]	139 - 163 - 188 - 212 - 236 - 261 - 285 - 310 - 334 - 358 - 383 - 407
Hysteresis, OP	[mm]	3
Accuracy / deviations		
Measuring error		± 5
	[% of the final value]	
Repeatability		± 2
Software / programming		
Parameter setting options		hysteresis / window; normally open / normally closed; SP/rP position; OP position; adjustment OP; medium selection; offset setting; Display unit
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80



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Protection	IP 67
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Tests / approvals

Approval	WHG § 19	
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	500 V / 1 kV
	EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN EN 60068-2-29	12 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	2.5 g (10...2000 Hz)
MTTF [years]	266	

Mechanical data

Weight [g]	399
Dimensions [mm]	Ø 16
Materials	EPDM/X; FKM; brass white bronze coated; NBR; PBT; PC; PP; PA
Materials (wetted parts)	PP

Displays / operating elements

Display	switching status	2 x LED, red
	measured values	7-segment LED display
	parameter setting	7-segment LED display

Remarks

Notes	Please see the technical note under "Downloads"
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

