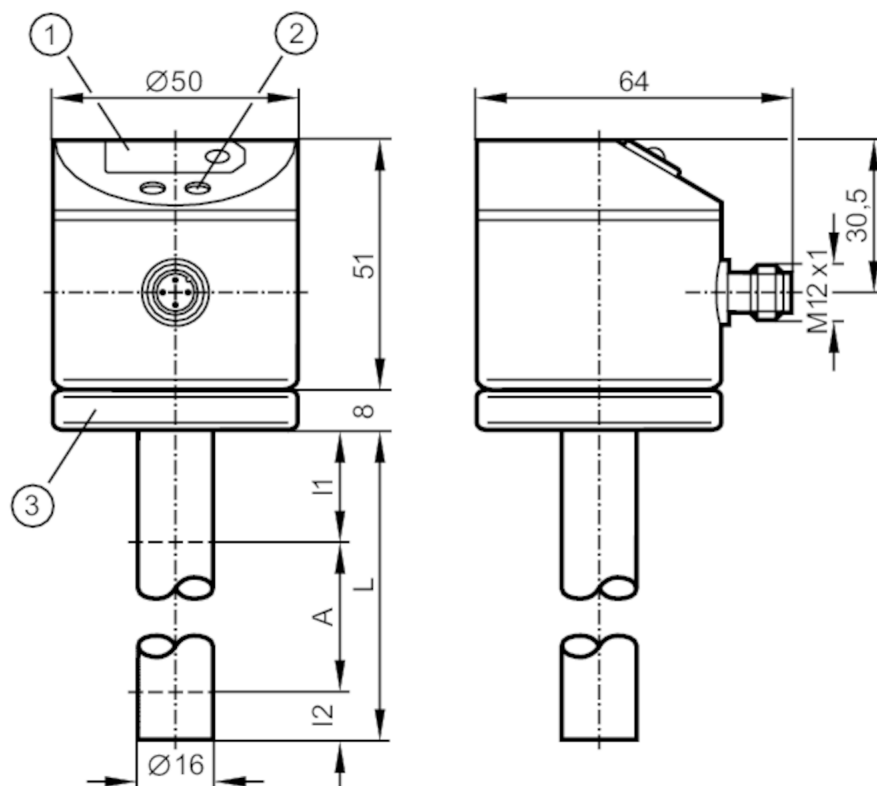


Continuous level sensor with overspill monitoring

LK0472A-A-00KUPKG/US/WHG



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



Application		
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
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



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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
Protection		IP 67

LK1223



Continuous level sensor with overspill monitoring

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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]	278
Mechanical data		
Weight	[g]	587
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		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

