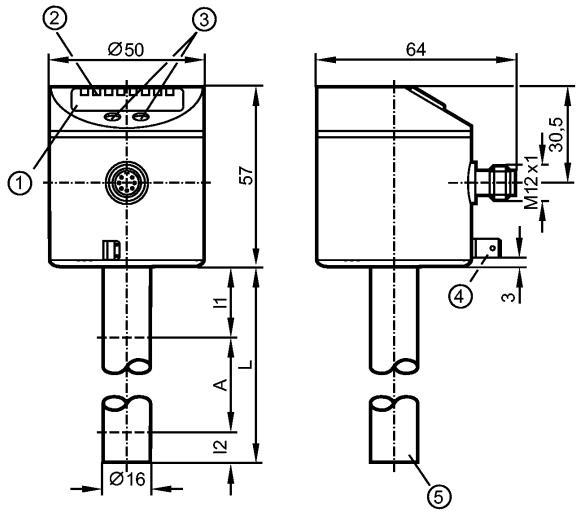
efector160

LT8022

LT0264B-B-00KSPKG/US

Level sensors

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



1: 4-digit alphanumeric display
2: status LEDs
3: Programming buttons
4: Housing connection (flat-pin connector 6.3 mm following DIN 46244)
5: Position of the temperature measuring element

Product characteristics

Electronic level and temperature sensor

Quick disconnect

Probe length: L = 264 mm

2 outputs for level monitoring (OUT1, OUT2)
2 outputs for temperature monitoring (OUT3, OUT4)

4-digit alphanumeric display

Application

Application		oils
Recommended media		oils
Dielectric constant medium		> 2
Medium temperature oil		
- Continuous	[°C]	0...70
- Short time	[°C]	0...90
Maximum speed of the change of level	[mm/s]	100

Electrical data

Electrical design		DC PNP
Operating voltage	[V]	18...30 DC [1])
Current consumption	[mA]	< 60
Protection class		III
Reverse polarity protection		yes

Outputs

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LT8022

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Level sensors

Output		2 outputs for level monitoring (OUT1, OUT2) 2 outputs for temperature monitoring (OUT3, OUT4)
Output function		2 x normally open / closed programmable (level) 2 x normally open / closed programmable (temperature)
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Short-circuit protection		thermal, pulsed
Overload protection		yes
Measuring / setting range		
Probe length L	[mm]	264
Active range A	[mm]	195
Inactive range I1 / I2	[mm]	53 / 15
Setting range		
Set point, SP	[mm]	25...190
Reset point, rP	[mm]	20...185
in steps of	[mm]	5
Hysteresis	[mm]	5
Reference point OP	[mm]	69 - 82 - 94 - 106 - 118 - 130 - 143 - 155 - 167 - 179 - 191 - 204
Hysteresis OP	[mm]	2
Temperature monitoring		
Measuring range	[°C]	-10...100 **)
Set point, SP	[°C]	0.5...90
Reset point, rP	[°C]	0.0...89.5
in steps of	[°C]	0.5
Hysteresis	[K]	0.5
Accuracy / deviations		
Deviations (% of value of measuring range)		
Switch point accuracy		± 5
Repeatability		± 2
Resolution	[mm]	5
Temperature monitoring		
Accuracy	[K]	± 1
Resolution	[K]	0.5
Dynamic response (T09)	[s]	90 (DIN EN 60751)
Reaction times		
Power-on delay time	[s]	3
Software / programming		
Programming options		hysteresis / window function; N.O. / N.C; position of SP/rP; position of OP; OP adjustment; medium adjustment; offset; display unit
Environment		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80
Maximum vessel pressure	[bar]	0.5 (mounted with mounting accessories E43001 - E43007)
Protection		IP 67
Tests / approvals		

LT8022

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EMC		EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 0.5/1 kV 10 V
Shock resistance		DIN EN 60068-2-29:	15 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF	[Years]	224	

Mechanical data

Materials (wetted parts)		PP (polypropylene)
Housing materials		FKM; NBR; PBT; PC; PP; TPE / V; stainless steel
Weight	[kg]	0.316

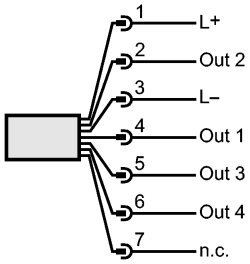
Displays / operating elements

Display	Display unit	4 x LED green (cm, inch, °C, °F)
	Switching status	4 x LED yellow
	Measured values	4-digit alphanumeric display
	Programming	4-digit alphanumeric display

Electrical connection

Connection	M12 connector (according to EN 61076-2-101); gold-plated contacts

Wiring



n.c. = not connected

Remarks

Remarks	**) permissible medium temperature: see line “medium temperature” 1) cULus - Class 2 source required
Pack quantity [piece]	1

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