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LT8023

LT0472B-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: LEDS 3: Programming buttons 4: Housing connection (fla-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 = 472 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	070			
- Short time [°C	090			
Maximum speed of the change of				
level [mm/s	200			
Electrical data				
Electrical design				
Operating voltage [V	1830 DC ¹)			
Current consumption [mA	< 60			
Protection class				
Reverse polarity protection yes				
Outputs				

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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]	472	
Active range A	[mm]	390	
Inactive range I1 / I2	[mm]	53 / 30	
Setting range			
Set point, SP	[mm]	40390	
Reset point, rP	[mm]	35385	
in steps of	[mm]	5	
Hysteresis	[mm]	5	
Reference point OP	[mm]	139 - 163 - 188 - 212 - 236 - 261 - 285 - 310 - 334 - 358 - 383 - 407	
Hysteresis OP	[mm]	3	
Temperature monitoring			
Measuring range	[°C]	-10100 **)	
Set point, SP	[°C]	0.590	
Reset point, rP	[°C]	0.089.5	
in steps of	[°C]	0.5	
Hysteresis	[K]	0.5	
Accuracy / deviations			
Deviations (% of value of me	easuring ran	de)	
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]	060	
Storage temperature	[°C]	-2580	
Maximum vessel pressure	[bar]	0.5 (mounted with mounting accessories E43001 - E43007)	
Protection		IP 67	
Tests / approvals			



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EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated:	4 kV CD / 8 kV AD 10 V/m		
	EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	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 (102000 Hz)		
MTTF [Years]	195			
Mechanical data				
Materials (wetted parts)	PP (polypropylene)			
Housing materials	FKM; NBR; PBT; PC;	FKM; NBR; PBT; PC; PP; TPE / V; stainless steel		
Weight [kg]		0.398		
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	V 61076-2-101); gold-plated contacts		
Wiring $3\frac{2}{4}\frac{5}{5}6^{-1}$ $3\frac{1}{5}6^{-1}$ $3\frac{1}{5}$ $4\frac{-1}{5}$ $3\frac{-1}{5}$ $-1\frac{-1}{5}$				
n.c. = not con Remarks	nected			
Remarks	 **) permissible medium tempera ¹) cULus - Class 2 source requi 	ature: see line "medium temperature" red		
Pack quantity [piece]		1		
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