efectoriso

LR8010

Level sensors

LR0000B-BR34AVPKG/US

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



CE

Product characteristics					
Electronic level sensor					
Quick disconnect					
Process connection: G ¾ A					
Guided wave radar					
Freely rotatable housing 360°					
General building authority approval: Z-65.16-529					
Overflow protection					
Only use with a rod + a coaxial pipe					
Probe length: L = 1001600 mm					
4 switching outputs (one of them for overflow protection according to the German Federal Water Act (WHG))					
4-digit alphanumeric display					
Application					
Application		Hydrous coolants, oils, oil-based media, water, media similar to water			
Cannot be used for:		See the operating instructions, chapter "Function and features".			
Dielectric constant medium		≥2			
Medium temperature	[°C]	080			
Maximum speed of the chai level	nge of [mm/s]	50			
Electrical data					
Electrical design		DC PNP			
Operating voltage	[V]	1830 DC			
Current consumption	[mA]	< 65			
Protection class		III			



LR8010

LR0000B-BR34AVPKG/US



Reverse polarity protection		yes
Outputs		
Output		4 switching outputs (one of them for overflow protection according to the German Federal Water Act (WHG))
Output function		3 x NO / NC programmable; 1 x NC (WHG - German Federal Water Act)
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Short-circuit protection		thermal, pulsed
Overload protection		yes
Measuring / setting range		
Probe length L	[mm]	1001600
Active range A	[mm]	L-40 (L-60)*)
Inactive range I1 / I2	[mm]	30 / 10 (30)*)
Setting range		
Set point, SP	[mm]	≥ 15 (35)*) / ≤ L-30
Reset point, rP	[mm]	≥ 10 (30)*) / ≤ L-35
in steps of	[mm]	5
Hysteresis	[mm]	≥5
Overflow switch point OP	[mm]	70L-30
Hysteresis OP	[mm]	10
Accuracy / deviations		
Deviations (in mm)		
Switch point accuracy		± (15 + 0.5 % MEW**))
Repeatability		± 5
Reaction times		
Power-on delay time	[S]	≤ 3
Response time of the switchi [s]	ng output	≤ 1.5
Fault detection [s]		≤ 3
Environment		
Ambient temperature	[°C]	060
Storage temperature	[°C]	-2580
Maximum vessel pressure	[bar]	-0.54
Protection		IP 67
Tests / approvals		
Approval		WHG § 19
EMC		DIN EN 61000-6-2 DIN EN 61000-6-4
Shock resistance		DIN EN 60068-2-27 50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6 5 g (102000 Hz)
MTTF	[Years]	183
Mechanical data		
Process connection		G ¾ A
Materials (wetted parts)		stainless steel (303S22); probe connection: stainless steel 316L / 1.4435; PTFE; FKM; sealing: NBR-PPTA 20



LR8010

Level sensors

Housing materials		stainless steel 316L / 1.4404; stainless steel (304S15); FKM; PBT-GF 20; PC; PEI; TPV		
Weight	[kg]	0.404		
Displays / operating elem	ients			
Display		Display unit3 x LED greenSwitching status 4 x LED yellowLevel4-digit alphanumeric displayProgramming4-digit alphanumeric display		
Electrical connection				
Connection		M12 connector (according to EN 61076-2-101); gold-plated contacts		
		$ \begin{array}{c} 1 \\ 2 \\ $		
Accessories				
Accessories (optional)		Matching accessories online next to the Datasheet \rightarrow Accessories		
Remarks				
Remarks		*) when set to oil and oil based media **) MEW = final value of the measuring range in mm; MEW = L - 30 mm		
Pack quantity	[piece]	1		
ifm efector, inc. • 1100 Atwater Drive • M	lalvern • PA 1935	5- We reserve the right to make technical alterations without prior notice. — US — LR8010 — 10.09.2013		
Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.				