LR7024

Continuous level sensor (guided wave radar)

LR0700B-BR34AQPKG/US

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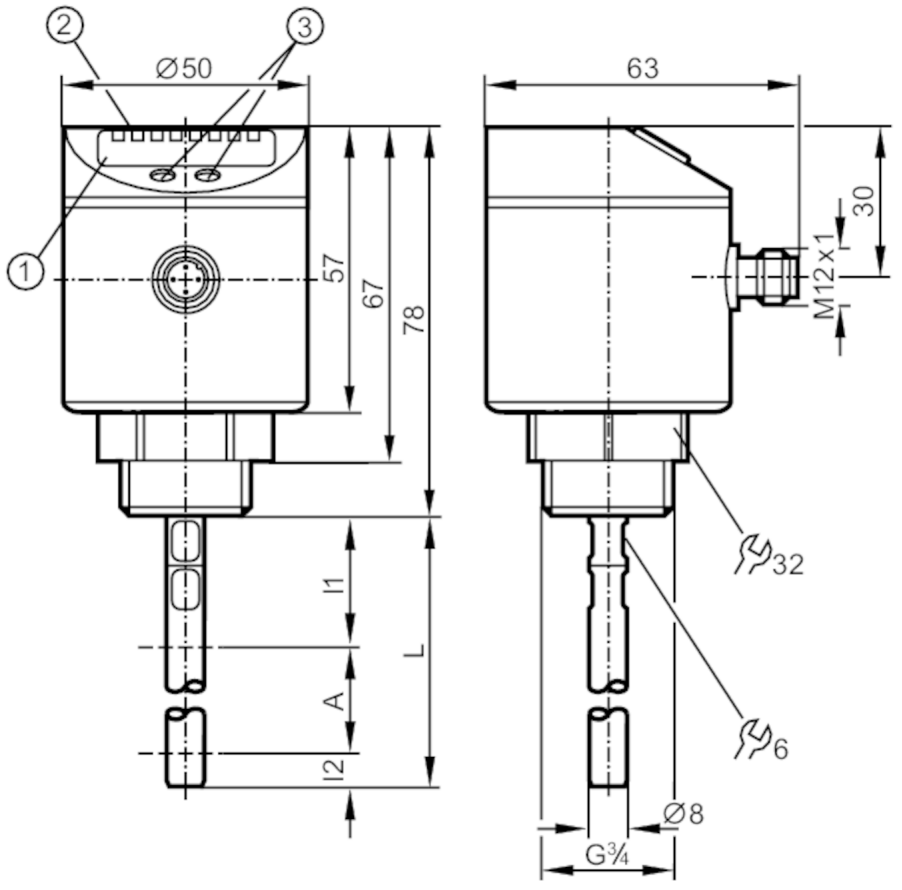
Alternative articles: LR7000 + E43205
When selecting an alternative article and accessories please note that technical data may differ!



1 alphanumeric display 4-digit
2 status LEDs
3 programming buttons

CE

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Probe length L	[mm]	700
Process connection		G 3/4 external thread
Application		
Special feature		Gold-plated contacts
Application		for industrial applications
Media		hydrous coolants; water; media similar to water
Dielectric constant of the medium		> 20
Recommended media		hydrous coolants; water; media similar to water
Cannot be used for		oils; greases; granulates; bulk material; acids; alkali
Medium temperature	[°C]	0...80
Tank pressure	[bar]	0.5

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Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 80
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	3
Measuring principle		guided wave radar
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		thermal, pulsed
Overload protection		yes
Measuring/setting range		
Probe length L	[mm]	700
Active range A	[mm]	650
Inactive range I1 / I2	[mm]	40/10
Setting range		
Set point SP	[mm]	15...660
Reset point rP	[mm]	10...650
In steps of	[mm]	5
Hysteresis	[mm]	5
Accuracy / deviations		
Measuring error [% of the final value]		± 5
Repeatability		± 2
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80
Protection		IP 67

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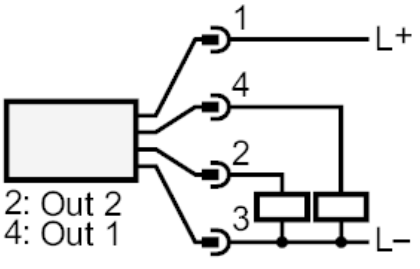
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN EN 60068-2-29	12 g (11 ms)
Vibration resistance		2.5 g (RMS, 1...1000 Hz)
Mechanical data		
Materials	stainless steel (1.4301 / 304); FKM; NBR; PBT; PC; PEI; TPE-V; PTFE	
Materials (wetted parts)	stainless steel (1.4305 / 303); PTFE; NBR	
Process connection	G 3/4 external thread	
Displays / operating elements		
Display	Display unit	2 x LED, green
	switching status	2 x LED, yellow
	level	alphanumeric display, 4-digit
	parameter setting	alphanumeric display, 4-digit
Accessories		
Items supplied	Sealing	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		

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

Connection