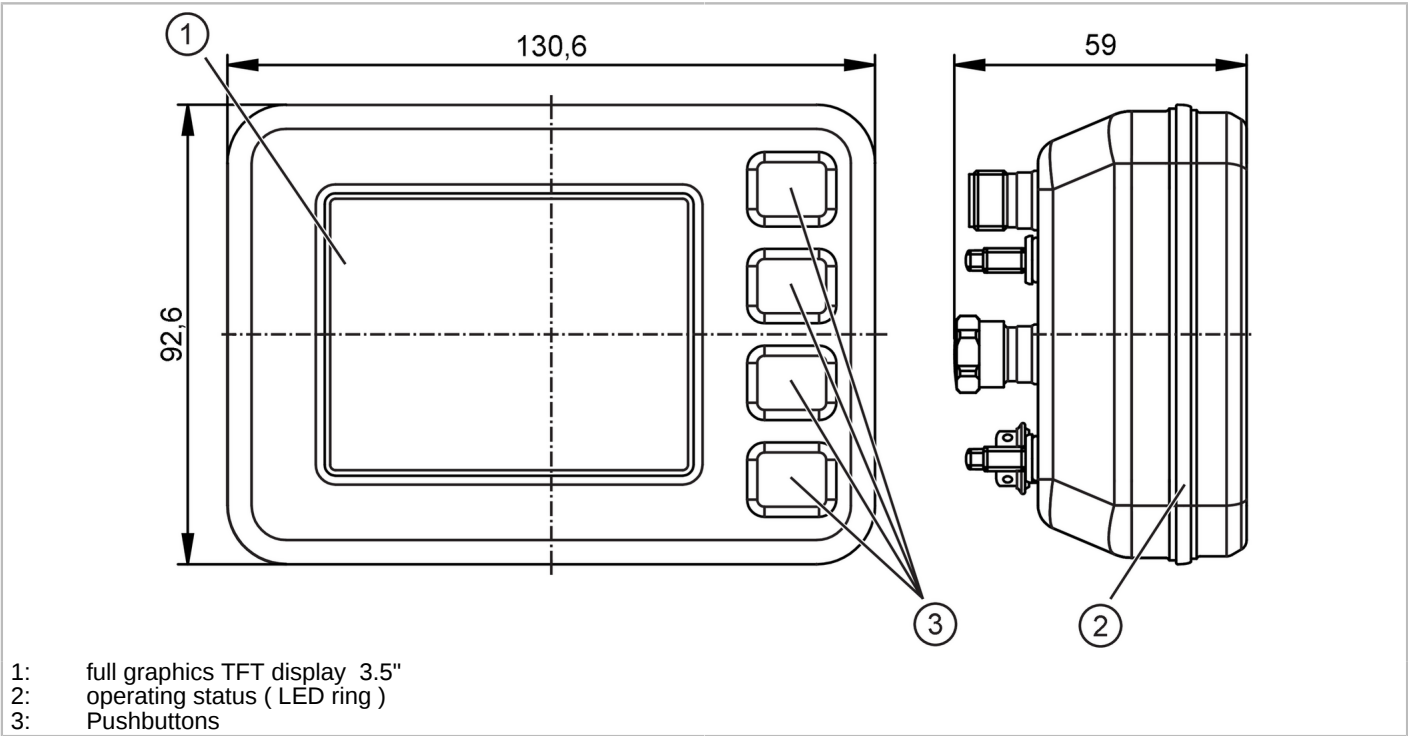




Electronic unit for SMFx2x magnetic-inductive flow sensor

MEASURING CONVERTER DISPLAY



Application		
Special feature	gold-plated contacts	
Application	food and beverage industry	
Electrical data		
Operating voltage	[V]	18...32 DC
Current consumption	[mA]	250; (24V)
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time	[s]	< 5
Inputs / outputs		
Total number of inputs and outputs	2	
Inputs		
Inputs	OUT2	external totalizer reset
Outputs		
Total number of outputs	2	
Output signal	OUT1	pulse signal; totalizer switching signal; diagnostic signal; IO-Link
	OUT2	analog signal; pulse signal; totalizer switching signal; diagnostic signal
Electrical design	PNP/NPN	
Pulse output	flow rate meter	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	



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Analog		
Number of analog outputs	1	
Analog current output [mA]	4...20; (skalierbar)	
Max. load [Ω]	500	
Resolution of analog output	0.38 μA	
Digital		
Number of digital outputs	2	
Max. voltage drop switching output DC [V]	2	
Permanent current rating of switching output DC [mA]	100	
Switching frequency DC [Hz]	0...10000	
Software / programming		
Diagnostic functions	direction of flow detection; liquid detection	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM3 (230,4 kBaud)	
IO-Link revision	1.1.3	
SDCI standard	IEC 61131-9	
Profiles	Common - I&D	Identification and Diagnosis
	Smart Sensor - SSP 4.3.4	Measuring and Switching Sensor, floating point, 4 channel
SIO mode	yes	
Required master port class	A	
Process data analog	6	
Process data binary	8	
Min. process cycle time [ms]	1.9	
IO-Link process data (cyclical)	Function	bit length
	totalizer	32
	flow	32
	temperature	32
	conductivity	32
	status	4
	binary switching information	8
IO-Link functions (acyclical)	direction of flow detection; totalizer; memory; operating hours counter; internal temperature; simulation function	
Operating conditions		
Ambient temperature	-20...65 °C	-4...149 °F
Storage temperature	-20...80 °C	-4...176 °F
Protection	IP 67; IP 69	
Tests / approvals		
EMC	DIN 61326-1	
Shock resistance	DIN IEC 68-2-27	20 g (18ms)
Vibration resistance	DIN IEC 68-2-6	5 g (10...2000Hz)
Mechanical data		
Weight [g]	922	

E40581



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Housing	rectangular
Dimensions [mm]	92.6 x 130.6 x 59
Material	electronics: stainless steel (1.4404 / 316L); Display: polysulfone; Display-sealing: FKM; LED ring: PP

Displays / operating elements

Display	process value	full graphics TFT display, multi-color 3,5" 320 x 240 Pixel
		display layouts: 4
		display rotation: 4 x 90°
	operating status	LED ring, three-color
Language	German; English; Spanish; French; Italian; Japanese; Korean; Portuguese; Chinese	
Operating elements	4	capacitive pushbuttons

Accessories

Items supplied	replacement electronics: 1 x (92,6 x 130,6 x 59 mm), for SMFx2x
	Hexagon nuts: 4 x M5

Remarks

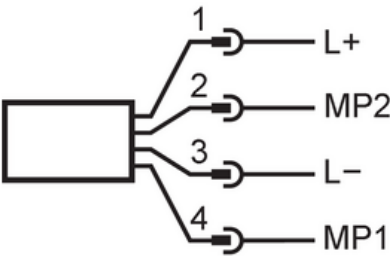
Pack quantity	1 pcs.
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Electrical connection

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



Connection



1:	L+
2:	OUT MP2, DO, AO, Reset
3:	L-
4:	OUT1 MP1, DO, IO-Link