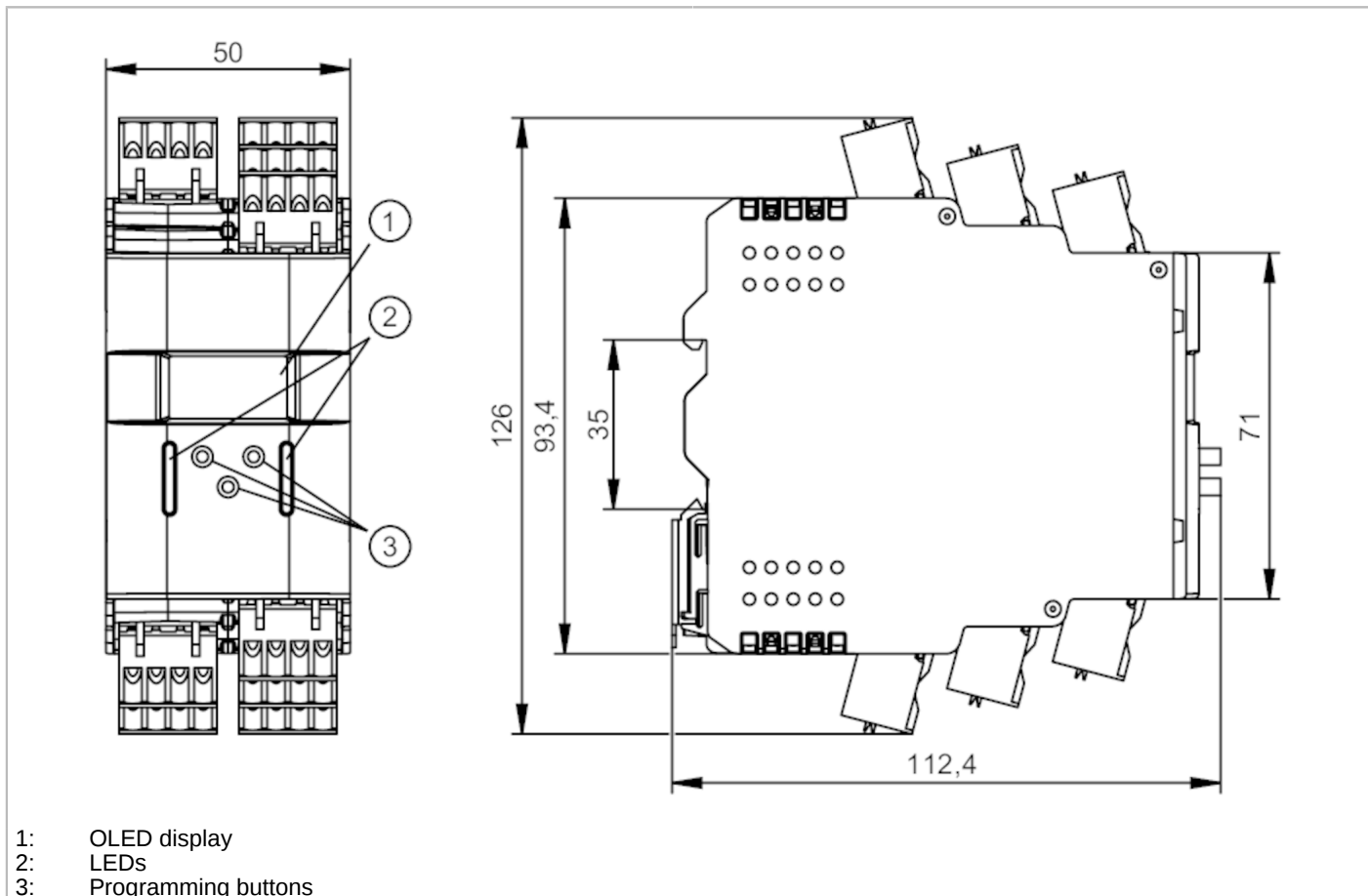


DL3003



Evaluation unit for monitoring analog standard signals

MONITOR/ANALOG/IO/AC/DC



- 1: OLED display
- 2: LEDs
- 3: Programming buttons



Product characteristics	
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	126 x 50 x 112.4
Application	
Design	housing for DIN rail mounting
Application	2-channel analog threshold relay for analog standard signals
Electrical data	
Operating voltage [V]	18...30 DC
Nominal voltage AC [V]	110...240
Nominal voltage DC [V]	24
Nominal frequency AC [Hz]	50...60
Max. power consumption [VA]	11
Auxiliary energy for sensors DC	16.5...27.7; (SELV; DC operation: ≤ 200 mA; AC operation: ≤ 150 mA)
Inputs / outputs	
Number of inputs and outputs	Number of analog inputs: 2; Number of digital outputs: 2; Number of analog outputs: 1; Number of relay outputs: 2



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Inputs													
Number of analog inputs	2; (configurable)												
Analog input (current) [mA]	0...20												
Input resistance [Ω]	300												
Analog input (voltage) [V]	0...10												
Input resistance [k Ω]	25												
Resolution of analog input	12 Bit												
Outputs													
Number of digital outputs	2												
Circuit	PNP												
Number of relay outputs	2; (changeover contact)												
Contact rating	6 A (250 V AC); B300, R300												
Number of analog outputs	1												
Analog current output [mA]	4...20; (max.. 20,5 mA)												
Max. load [Ω]	600; (300 Ω : Operating voltage < 24 V DC)												
Short-circuit proof	yes												
Electrically separated	no												
Accuracy / deviations													
Analog input													
Accuracy	± 0.25 ; (% of the final value < 45 °C; > 45 °C 0.25 % + Temperature coefficient)												
Temperature coefficient [% of the span / 10 K]	$\pm 0,1$; (> 45 °C)												
Analog output													
Accuracy	± 0.75 ; (% of the final value < 45 °C; including analog input accuracy)												
Interfaces													
Communication interface	IO-Link												
Transmission type	COM2 (38,4 kBaud)												
IO-Link revision	1.1												
SDCI standard	IEC 61131-9												
Profiles	<table border="1"> <tr> <td>Smart Sensor - SSP 4.1.2</td> <td>Measuring and Switching Sensor, 2 channel</td> </tr> <tr> <td>Common - I&D</td> <td>Identification and Diagnosis</td> </tr> <tr> <td>Extension</td> <td>Sensor control</td> </tr> <tr> <td>Extension</td> <td>Quantity detection, switches when value exceeds the setpoint</td> </tr> <tr> <td>Function</td> <td>Locator</td> </tr> <tr> <td>Function</td> <td>ProductURI</td> </tr> </table>	Smart Sensor - SSP 4.1.2	Measuring and Switching Sensor, 2 channel	Common - I&D	Identification and Diagnosis	Extension	Sensor control	Extension	Quantity detection, switches when value exceeds the setpoint	Function	Locator	Function	ProductURI
Smart Sensor - SSP 4.1.2	Measuring and Switching Sensor, 2 channel												
Common - I&D	Identification and Diagnosis												
Extension	Sensor control												
Extension	Quantity detection, switches when value exceeds the setpoint												
Function	Locator												
Function	ProductURI												
Required master port class	A												
Min. process cycle time [ms]	4.9												
Supported DeviceIDs	<table border="1"> <tr> <th>Type of operation</th> <th>DeviceID</th> </tr> <tr> <td>default</td> <td>1583</td> </tr> </table>	Type of operation	DeviceID	default	1583								
Type of operation	DeviceID												
default	1583												
Operating conditions													
Ambient temperature [°C]	-40...60												
Note on ambient temperature	110V AC operation: -25...60 °C												
Storage temperature [°C]	-40...85												

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Max. relative air humidity	[%]	80; (31 °C; linearly decreasing to 50 % (40 °C))
Max. height above sea level	[m]	4000
Protection		IP 20
Protection rating terminals		IP 20

Tests / approvals

EMC		EN 61010	
		EN 61000-6-2	
		EN 61000-6-8	
MTTF	[years]	150	

Mechanical data

Weight	[g]	338.6
Housing		rectangular
Type of mounting		Mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	126 x 50 x 112.4
Material		housing: plastics

Displays / operating elements

Display		1x OLED display, 128 x 64 pixels luminous
	Switching status	2x LED, yellow
	Power	1x LED, green/red
Teach function		yes

Accessories

Items supplied		cage clamps: 9
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Remarks

Pack quantity		1 pcs.
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MONITOR/ANALOG/IOL/AC/DC

Electrical connection

cage clamps: ...2.5 mm²

Connection

