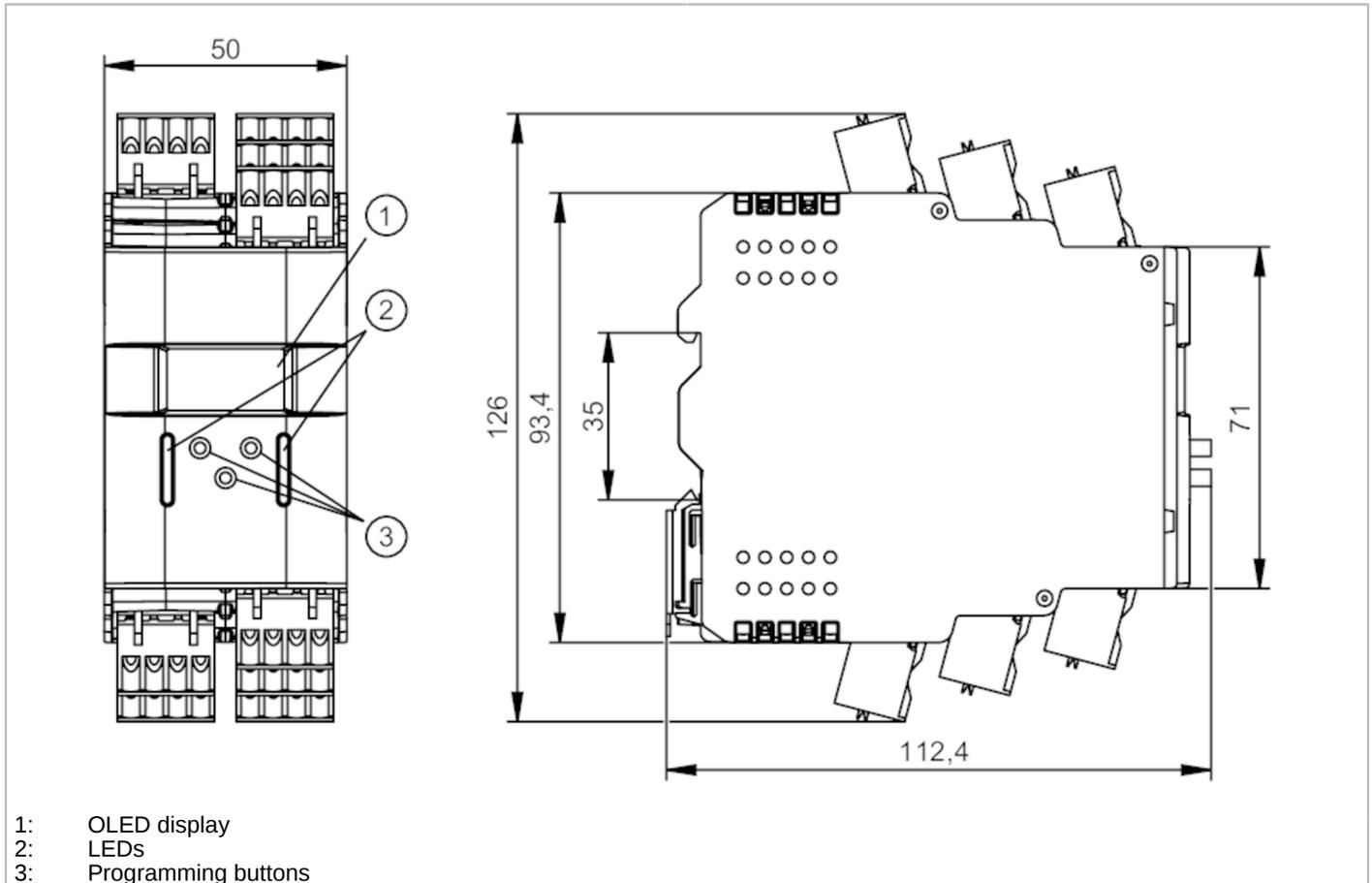


# DL3003



## Evaluation unit for monitoring analog standard signals

MONITOR/ANALOG/IOL/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]	110...240 AC / 18...30 DC; (tolerance AC operation: -20 % / +10 %)
Nominal voltage AC [V]	110...240
Nominal voltage DC [V]	24
Nominal frequency AC [Hz]	50...60
Current consumption [mA]	AC operation: max. 8 A (including maximum AC supply for additional devices )
Max. power consumption DC [W]	9
Overtoltage category	II
Auxiliary energy for sensors DC [V]	16.5...27.7; (Short-circuit proof; 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



## Evaluation unit for monitoring analog standard signals

MONITOR/ANALOG/IO/AC/DC

Inputs	
Number of analog inputs	2; (configurable)
Analog input (current) [mA]	0...20
Input resistance [ $\Omega$ ]	300
Analog input (voltage) [V]	0...10
Input resistance [k $\Omega$ ]	25
Resolution of analog input	12 Bit
Outputs	
Number of digital outputs	2
Number of relay outputs	2
Number of analog outputs	1
Digital output	
Circuit	PNP
Max. current load per output [mA]	10
Short-circuit proof	yes
Electrically separated	no
Relay output	
Minimum load current [mA]	10; (> 12 V)
Number of relay outputs	2; (changeover contact)
Contact rating	6 A; (max. 240 V AC / 30 V DC see diagram:: Contact rating; B300: 6000 cycles)
Switching frequency AC [Hz]	< 2
Switching frequency DC [Hz]	< 2
Short-circuit proof	no
Electrically separated	yes
Analog output	
Analog current output [mA]	4...20; (max.. 20,5 mA)
Max. load [ $\Omega$ ]	600; (300 $\Omega$ : Operating voltage < 24 V DC)
Short-circuit proof	yes
Electrically separated	no
Accuracy / deviations	
Analog input	
Accuracy	$\pm 0.25$ ; (% 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	$\pm 0.75$ ; (% 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

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Profiles	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	<b>Type of operation</b>	<b>DeviceID</b>
	default	1583

Operating conditions		
Ambient temperature [°C]		-40...60
Note on ambient temperature		110V AC operation: -25...60 °C
		2000...3000 m: max. 58 °C
		3000...4000 m: max. 56 °C
		Contact rating Relay output: B300 max. 50 °C
Storage temperature [°C]		-40...85
Max. relative air humidity [%]		80; (31 °C; linearly decreasing to 50 % (40 °C))
Max. height above sea level [m]		4000
Protection		IP 20; (when mounted)
Protection rating terminals		IP 20
Degree of soiling		2

Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-8	
Electrical safety	EN 61010-1	
	EN 61010-2-201	
MTTF [years]		150
UL approval	Ta	60 °C
	Enclosure type	open Type
	File number UL	E191692

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

# DL3003



## Evaluation unit for monitoring analog standard signals

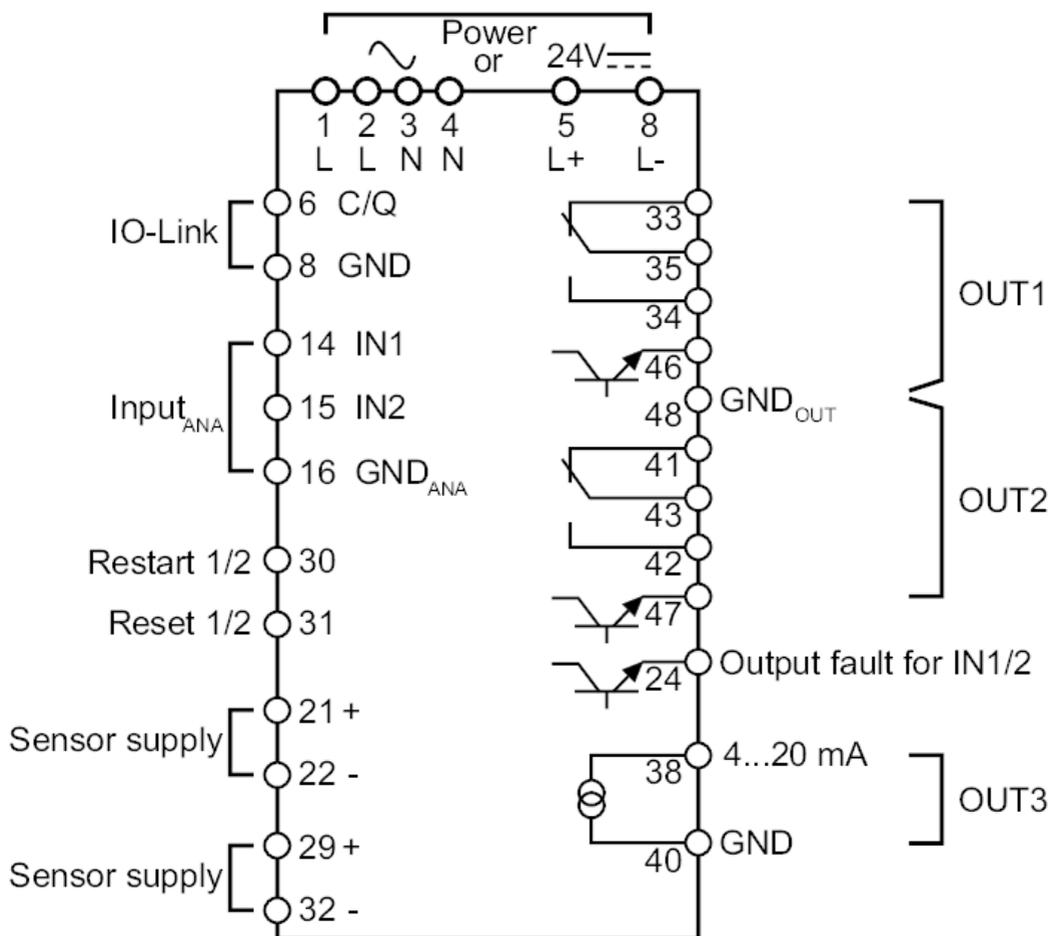
MONITOR/ANALOG/IO/LI/AC/DC

Remarks	
Remarks	For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

### Electrical connection

cage clamps: ...2.5 mm<sup>2</sup>

### Connection



# DL3003

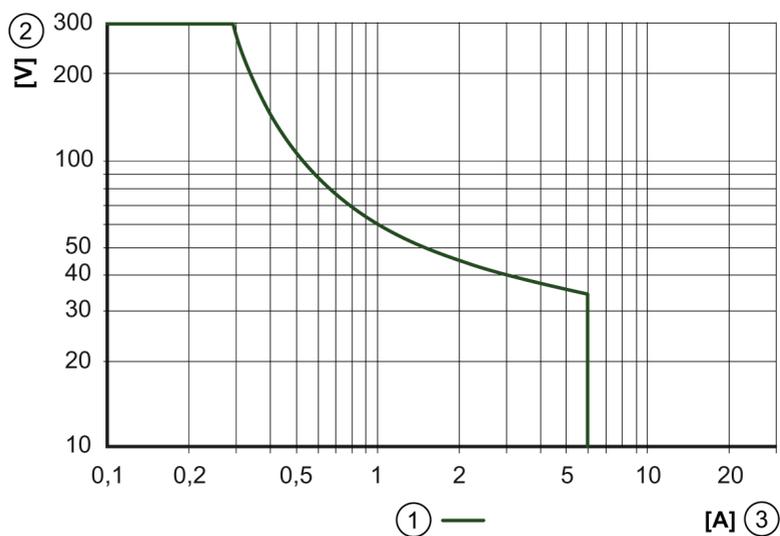


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MONITOR/ANALOG/IOL/AC/DC

### Diagrams and graphs

Contact rating



- 1 resistive load
- 2 Voltage [DC]
- 3 Current [DC]