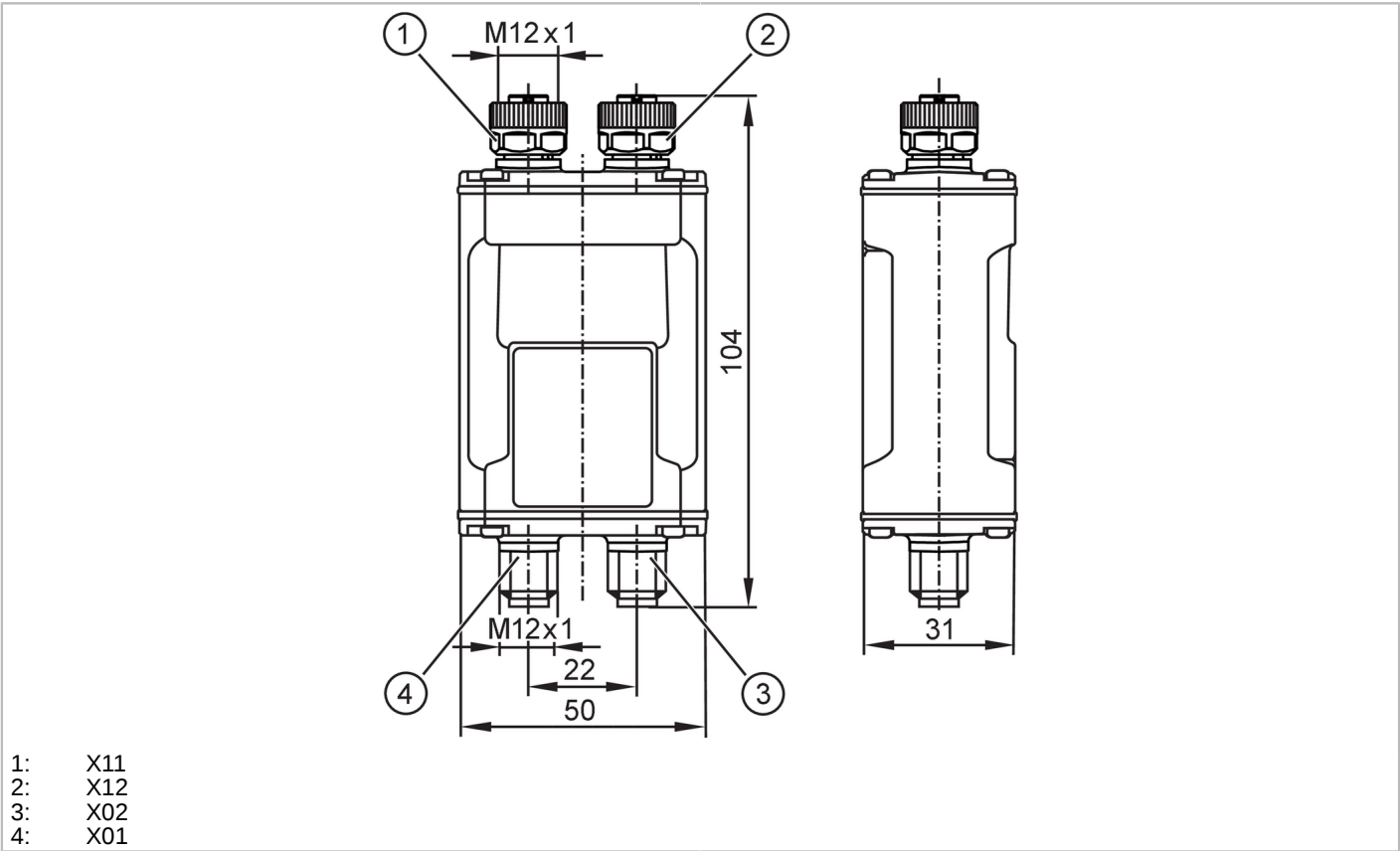


DP1204



Evaluation unit for monitoring analog standard signals

MONITOR/ANALOG/IOL/IP67



Product characteristics		
Communication interface		IO-Link
Dimensions	[mm]	104 x 50 x 31
Application		
Application		2-channel analog threshold relay for analog standard signals
Electrical data		
Operating voltage	[V]	18...30 DC; (to SELV/PELV)
Nominal voltage DC	[V]	24
Power consumption	[W]	9
Overvoltage category		II
Auxiliary energy for sensors DC	[V]	16.5...27.7; ($\leq 200\text{ mA}$)
Inputs / outputs		
Number of inputs and outputs		Number of analog inputs: 2; Number of digital outputs: 2; Number of analog outputs: 1
Inputs		
Number of analog inputs		2
Resolution of analog input		12 Bit
Analog range 1		
Analog input (current)	[mA]	0...20
Input resistance	[Ω]	300



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Analog range 2		
Analog input (current)	[mA]	4...20
Input resistance	[Ω]	300
Analog range 3		
Analog input (voltage)	[V]	0...10
Input resistance	[kΩ]	25
Outputs		
Number of digital outputs		2
Circuit		PNP
Max. current load per output	[mA]	10
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		± 0.3; (% of the final value < 45 °C; > 45 °C 0.25 % + Temperature coefficient)
Temperature coefficient		± 0,1; (> 45 °C)
	[% of the span / 10 K]	
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	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	Type of operation	DeviceID
	default	1859
Note	For further information please see the IODD PDF file at "Downloads"	
Operating conditions		
Ambient temperature	[°C]	-25...60
Storage temperature	[°C]	-25...60
Max. relative air humidity	[%]	90; (linearly decreasing to 50 % (40 °C) non condensing)
Max. height above sea level	[m]	4000



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Protection	IP 65; IP 67
Pollution degree	2

Tests / approvals

EMC	EN 61000-6-2	
	EN 61000-6-8	
MTTF [years]	177	
UL approval	Enclosure type	Type 1
	File number UL	E205959

Mechanical data

Weight [g]	153	
Dimensions [mm]	104 x 50 x 31	
Material	housing: PA; cover: PA; sealing cover: TPE	
Sealing material	FKM	

Displays / operating elements

Display	status	1 x LED, green/red
	communication	1 x LED, green IO-Link
	Output	1 x LED, yellow OUT1
	Output	1 x LED, yellow OUT2
Teach function	yes	

Accessories

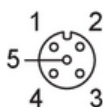
Accessories (optional)	mounting clip, E89209
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Remarks

Remarks	Further information is available in the manual.
Pack quantity	1 pcs.

Electrical connection - Socket X11

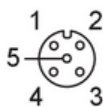
Connector: 1 x M12; coding: A; Contacts: 4; sealing: FKM



1	L+	(Sensor supply)
2	IN1	AI
3	L-	
4	IN3	(Reset 1/2)

Electrical connection - Socket X12

Connector: 1 x M12; coding: A; Contacts: 4; sealing: FKM



1	L+	(Sensor supply)
2	IN2	AI
3	L-	
4	IN4	(Restart 1/2)



Evaluation unit for monitoring analog standard signals

MONITOR/ANALOG/IOL/IP67

Electrical connection - plug X01

Connector: 1 x M12; coding: A; Contacts: 4



1	L+	(voltage supply)
2	OUT3	AO
3	L-	
4	DATA	IO-Link (C/Q)

Electrical connection - plug X02

Connector: 1 x M12; coding: A; Contacts: 4



1	n.c.	
2	OUT2	DO
3	L-	
4	OUT1	DO

IN: Input; OUT: Output; AI: analog input; AO: analog output; DATA: Communication interface; DO: digital output