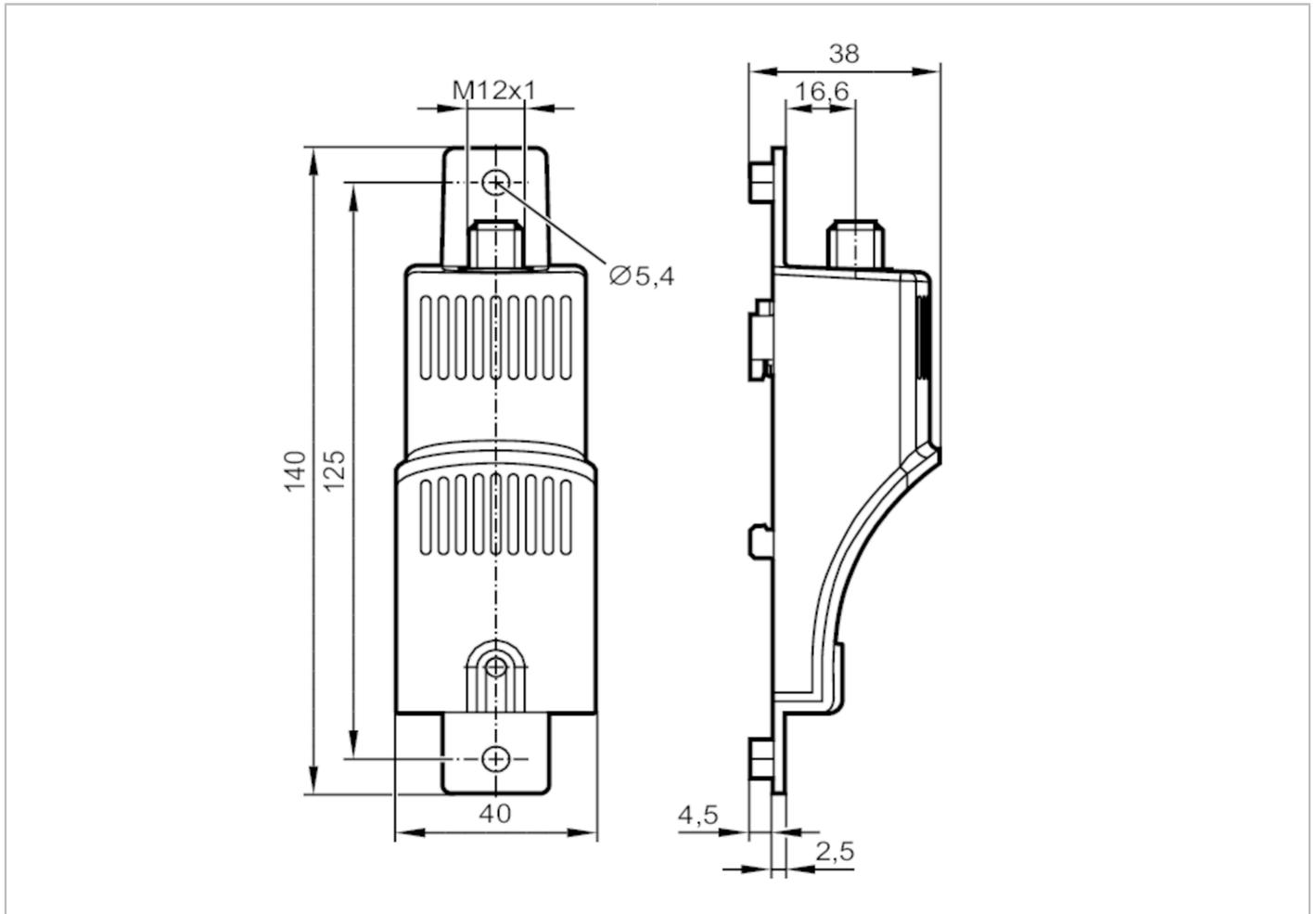


LDH290



Air humidity sensor

AIR HUMIDITY SENSOR ANALOG



Product characteristics

Number of inputs and outputs Number of analog outputs: 2

Application

System gold-plated contacts

Electrical data

Operating voltage [V] 12...30 DC

Protection class III

Reverse polarity protection yes

Power-on delay time [s] < 1

Measuring principle capacitive

Inputs / outputs

Number of inputs and outputs Number of analog outputs: 2

Outputs

Total number of outputs 2

Output signal analog signal

Number of analog outputs 2

Analog current output [mA] 4...20

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Max. load	[Ω]	(U _b - 12 V) / 20 mA
Measuring/setting range		
Measuring range	[% RH]	0...100
Temperature measurement		
Measuring range	[°C]	-40...60
Accuracy / deviations		
Accuracy	[% RH]	4; (in the range 20...80 % RH)
Resolution	[% RH]	0,1
Temperature measurement		
Accuracy	[K]	± 1
Resolution	[K]	0.1
Reaction times		
Response time	[s]	< 30; (T90)
Temperature measurement		
Response time	[s]	< 300; (T90)
Operating conditions		
Ambient temperature	[°C]	-40...70
Note on ambient temperature		application humidity: ≤ 90 % RH non condensing
Storage temperature	[°C]	-40...85
Note on storage temperature		storage humidity: ≤ 90 % RH non condensing
Protection		IP 20; (only sensor: IP 57)
Tests / approvals		
EMC		DIN EN 61000-6-2 DIN EN 61000-6-4
MTTF	[years]	178
UL approval		File number UL E224228
Mechanical data		
Weight	[g]	72.3
Type of mounting		Mounting on DIN rail and panel; (TH35 (EN 60715) / M5)
Dimensions	[mm]	140 x 40 x 38
Material		plastics UL94 V-0; light grey
Mounting orientation		vertical; connector facing upwards
Remarks		
Pack quantity		1 pcs.

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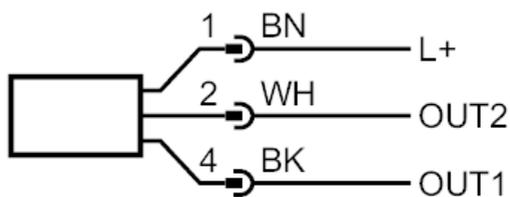
AIR HUMIDITY SENSOR ANALOG

Electrical connection

Connector: 1 x M12 (EN 61067-2-101); coding: A; Contacts: gold-plated



Connection



OUT1: analog output temperature
OUT2: analog output air humidity
Colors to DIN EN 60947-5-2
Core colors :

BK = black
BN = brown
WH = white