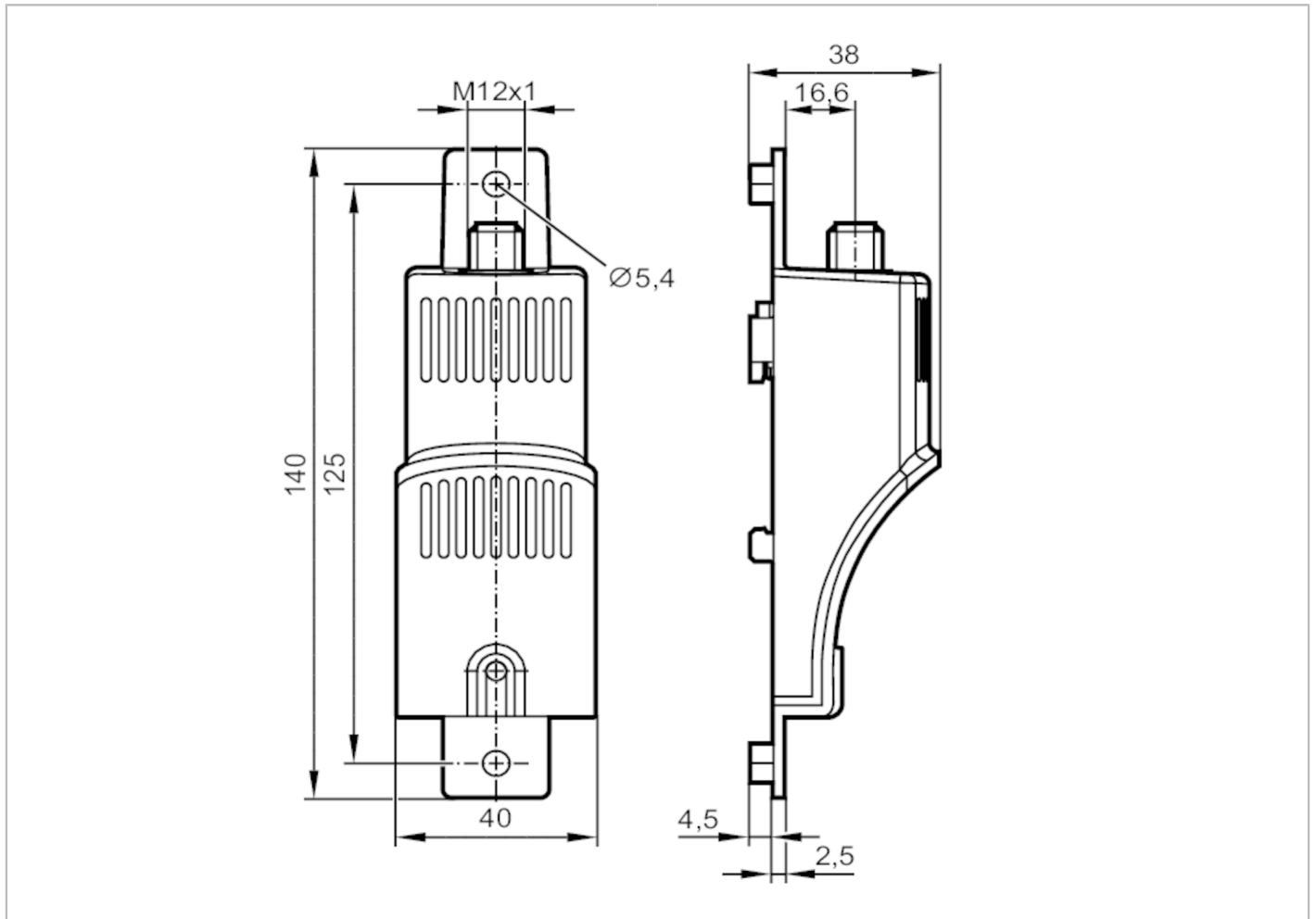


# LDH290



## 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

### 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

Max. load [Ω] \_\_\_\_\_ (U<sub>b</sub> - 12 V) / 20 mA

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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 61000-6-3	
MTTF [years]	178	
UL approval	File number UL	E224228
Mechanical data		
Weight [g]	72.3	
Type of mounting	DIN rail clip for 35 mm DIN rail (EN 60715); screw mounting; (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.	
Electrical connection		
Connector: 1 x M12 (EN 61067-2-101); Contacts: gold-plated		

# LDH290

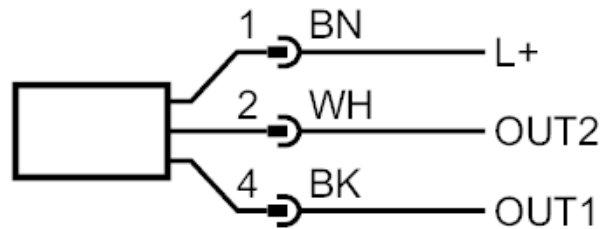


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### Connection



OUT1: analog output temperature

OUT2: analog output air humidity

Colors to DIN EN 60947-5-2

Core colors :

BK = black

BN = brown

WH = white