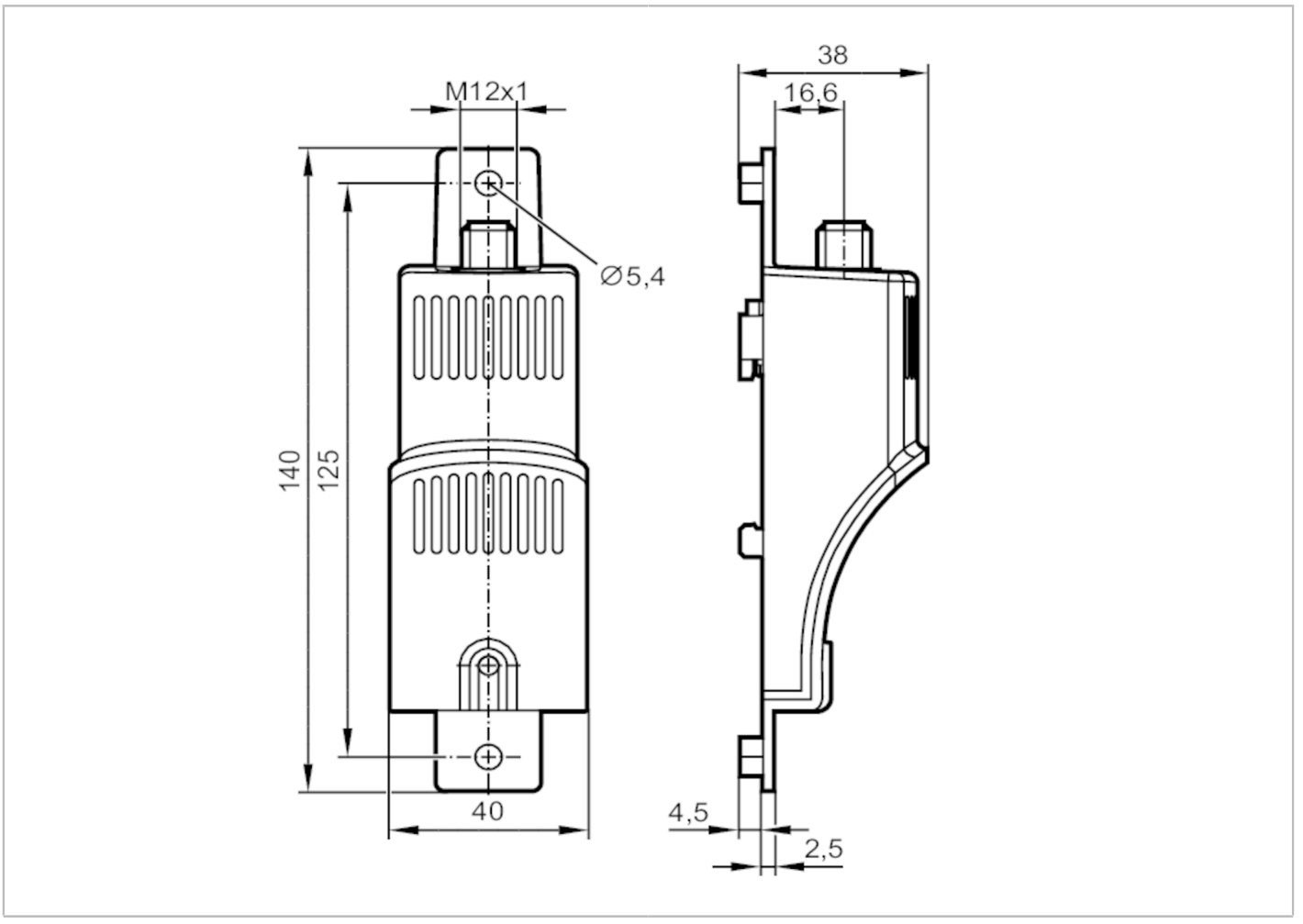
LDH292

Air humidity sensor

AIR HUMIDITY SENSOR IO-LINK



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Application		
Special feature		Gold-plated contacts
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	13
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 digital outputs: 1
Outputs		
Total number of outputs		1
Output signal		IO-Link
Number of digital outputs		1

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Measuring/setting range			
Measuring range	[% RH]	0...100	
Temperature measurement			
Measuring range	[°C]	-40...80	
Accuracy / deviations			
Accuracy	[% RH]	3; (in the range 20...80 % RH)	
Resolution	[% RH]	0,1	
Temperature measurement			
Accuracy	[K]	± 0,3	
Resolution	[K]	0.1	
Response times			
Response time	[s]	< 30; (T90)	
Temperature measurement			
Response time	[s]	< 300; (T90)	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
Profiles		Identification and Diagnosis (0x4000), Measurement Data Channel (0x800A)	
SIO mode		no	
Required master port type		A	
Min. process cycle time	[ms]	4.5	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	1337
Operating conditions			
Ambient temperature	[°C]	-40...80	
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]	195	
UL approval		File number UL	E224228
Mechanical data			
Weight	[g]	70	
Type of mounting		DIN rail clip for 35 mm DIN rail (EN 60715); screw mounting; (M5)	
Dimensions	[mm]	140 x 40 x 38	
Materials		plastics UL94 V-0; light grey	
Installation position		vertical; connector facing upwards	

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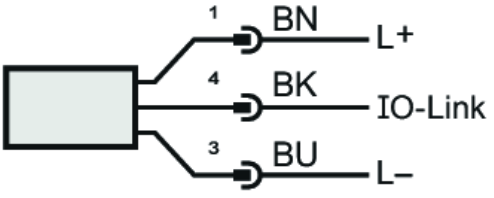
Remarks

Pack quantity	1 pcs.

Electrical connection

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

Connection



colours to DIN EN 60947-5-2
Core colours :

BK =	black
BN =	brown
BU =	blue