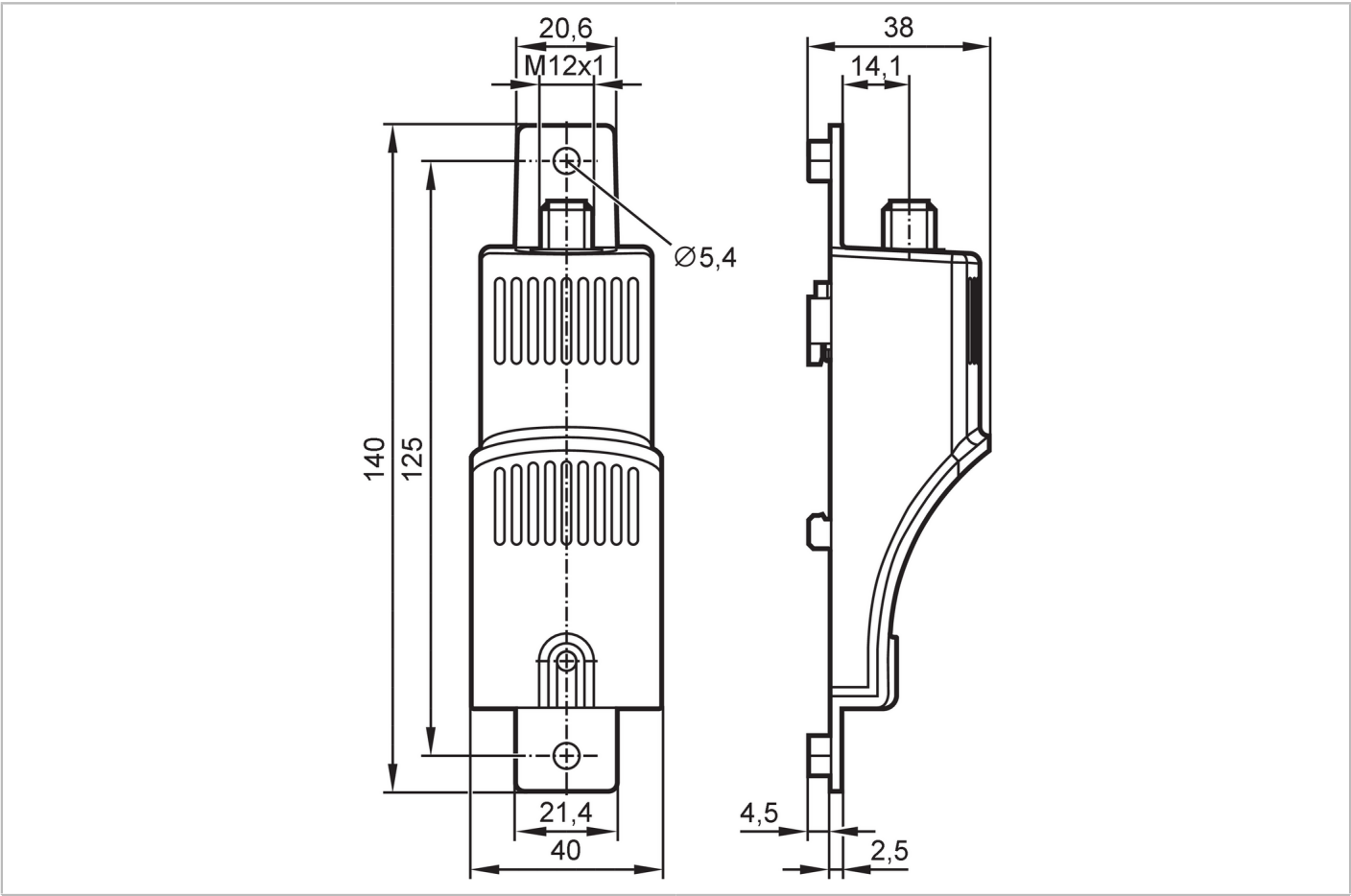


LDH292



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
Reaction 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	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	no	
Required master port class	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	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	

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Remarks

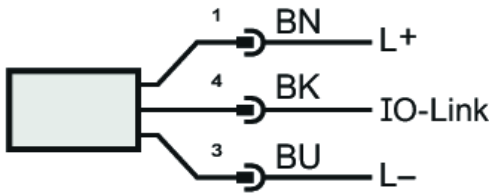
Pack quantity 1 pcs.

Electrical connection

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



Connection



Colors to DIN EN 60947-5-2
Core colors :
BK = black
BN = brown
BU = blue