Air humidity sensor: ensure the perfect climate for your processes

Analytical sensors

- **Easy temperature and air humidity monitoring for protection of electrical systems, control cabinets or production processes**

- **Plug & play thanks to screw or DIN rail mounting and M12 connector**

- **Data output via analogue signal or IO-Link**

- **Easy sensor replacement – parameters are set automatically when connected to an IO-Link master**

IO-Link

4…20 mA

Permanent temperature and humidity control

The air humidity sensor provides transparency and safety for electrical installations and sensitive production processes. Fixtures for wall or DIN rail mounting and a standard M12 connector guarantee quick and error-free installation. Depending on the type, the sensor transmits the temperature and relative humidity to the controller via IO-Link in analogue or digital form.
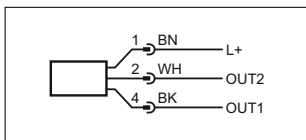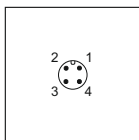
This makes it possible to protect control cabinets or test benches as well as electrical installations exposed to weather and moist conditions, such as drinks vending machines, radar measuring points or ticket machines, from moisture-related malfunctions or short circuits. In addition, the air humidity sensor can be used for quality assurance of temperature or moisture-sensitive production processes, enabling permanent indoor climate monitoring.
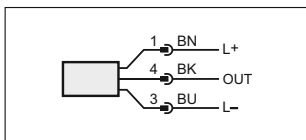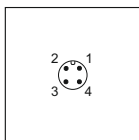
Accessories

Type	Description	Order no.
IO-Link		
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kbits/s)	ZZ1060
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011
Connection technology		
	Socket, M12, 4 poles 5 m, grey, MPPE cable	EVF001
	Socket, M12, 4 poles 2 m, grey, MPPE cable	EVF064
	Socket, M12, 4 poles 5 m, grey, MPPE cable	EVF004
	Socket, M12, 4 poles 2 m, grey, MPPE cable	EVF067
	Socket, M12, 2 m, black, PUR cable	EVC001
	Socket, M12, 5 m, black, PUR cable	EVC002
	Socket, M12, 2 m, black, PUR cable	EVC004
	Socket, M12, 5 m, black, PUR cable	EVC005

Wiring diagram

LDH290
OUT1: 4…20 mA (temperature)
OUT2: 4…20 mA (relative humidity)

LDH292
OUT: IO-Link

Technical data

Description 2 x 4...20 mA		Order no. LDH290
Operating voltage	[V DC]	12...30
Temperature measuring range	[°C]	-40...60
Temperature application range	[°C]	-40...70
Max. power consumption	[W]	1.8

Description IO-Link		Order no. LDH292
Operating voltage	[V DC]	18...30
Temperature measuring range	[°C]	-40...80
Temperature application range	[°C]	-40...80
Max. power consumption	[W]	0.3

Common technical data	
Protection rating, protection class	IP 20, III
Fastening - DIN rail	35 mm DIN rail
Fastening - screws	M5
Connection	M12 connector
Dimensions (H x W x D) [mm]	140 x 40 x 38

Dimensions

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For further technical details please visit: ifm.com