dol
SENSORS

MAKING SENSE IN YOUR PRODUCTION

DOL 16 Sensor

Climate sensor designed to measure light intensity
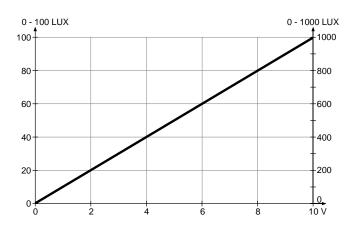
PRODUCT DESCRIPTION

DOL 16 is a sensor designed to measure light intensity. It is intended for application in livestock houses but is also well suited for a number of industrial applications.
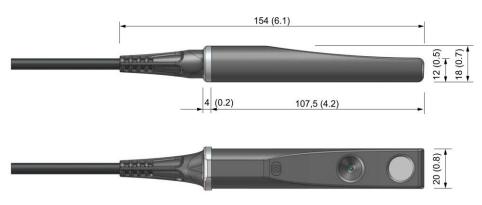
Two variants of the sensor are available; one with a cable, and one with M12-connector/cable.

The sensor has two 0-10 V analog outputs with a very low output resistance and full protection against short circuits and wiring failures.

The sensor is controlled by a microprocessor and has a two-colour light emitting diode (LED) for communication of operation status and error diagnostics.

FUNCTIONAL GRAPH

0 - 100 LUX   0 - 1000 LUX

Dimensions mm (inch)

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PRODUCT SURVEY

140266	**DOL 16 LIGHT SENSOR 0-100/1000LUX 0-10V M12 PLUG**
140268	**DOL 16 LIGHT SENSOR 0-100/1000LUX 0-10V**
140270	**DOL 16 LIGHT SENSOR 0-50/1000LUX 0-10V**
140271	**DOL 16 LIGHT SENSOR 0-50/1000LUX 0-10V M12 PLUG**

| 140269 | **CABLE 2M M12 PLUG INCL SEALING PLUG** |

| 380101 | **BRACKET FOR DOL 14/15/114/16** |

TECHNICAL DATA

	Output 1	**Output 2**
Measuring range	0 – 100 Lux* 0 – 100 Lux**	0 -1000 Lux
Accuracy	5 -100 Lux ± 4 % at 0 - 40 °C (32 °F – 104 °F)* 2 - 50 Lux ± 4 % at 0 - 40 °C (32 °F – 104 °F)**	25 -1000 Lux ± 8 % at 0 - 40 °C (32 °F – 104 °F)
Output signal	0.1V / 1 Lux* 0.2V / 1 Lux**	0.1V / 10Lux
	Common	
Time constant	Typ. 2 Sec. Max. 15 Sec.	
Supply Voltage	11 – 30 VDC	
Supply Current	12 mA no load 55 mA max. load	
Load	>500 Ω - < 10 MΩ	
Recommended load	≥ 100 kΩ	
Output current	20 mA per output (current limited)	
Output impedance	< 1 Ω	
Temperature, operation	- 40 °C – 60 °C (-40°F - 140°F)	
Classification	IP 67(NEMA 6)	
Cable	2 m (6,6 feet) 4 x 0,33 mm^2 (22AWG) cable	
Cable connecting (M12 variant)	M12 female connector with 2 m (6.6 feet) 4 x 0.33mm2 (22AWG) cable	
Max. cable length	100 m 0.82 mm^2 (328 feet 18AWG)	
Shipment weight	150 g (5.3oz)	
Measure, shipment	275 × 200 × 20 mm (11 × 8 × 0.8 inch)	

*: 140266, 140268

**: 140270, 140271