

DOL 16 0-10V

Light sensor

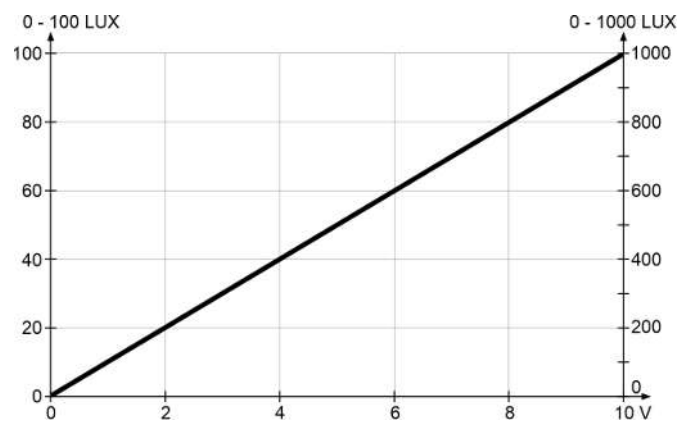


The DOL 16 is a sensor designed to measure light intensity. It is intended for application in live-stock houses but is also well suited for a number of industrial applications.

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 microprocessor-controlled and has a two-color light emitting diode (LED) to communicate the operation status and the error diagnostic.



Product survey



140266 DOL 16 light sensor 0-100/1000 LUX 0-10V M12 plug

140268 DOL 16 light sensor 0-100/1000 LUX 0-10V

Output 1: 0-100 lux. Output 2: 0-1000 lux.

140270 DOL 16 light sensor 0-50/1000 LUX 0-10V

Output 1: 0-50 lux. Output 2: 0-1000 lux.

The sensor is used for measuring light intensity.

Select the type of sensor that corresponds to the current brightness in the livestock house (measuring area).



140269 Cable 2 m M12 plug incl. sealing plug

2 meter cable with M12 plug and sealing plug.



380101 Bracket for DOL 16/104/114

Mounting brackets are used if the sensor is to be mounted in an accurate position.

Technical data

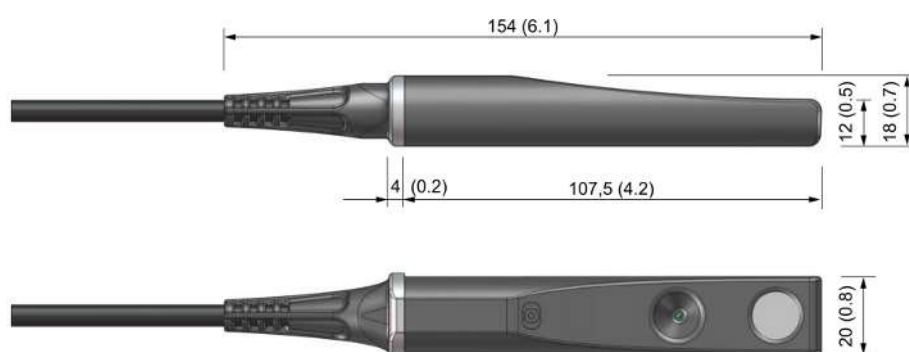
	Unit	Output 1	Output 2
Measuring range	Lux	0-100* 0-50**	0-1000
Accuracy		5-100 Lux +/- 4% at 0 – 40 °C (32 – 104 °F)* 2-50 Lux +/- 4% at 0 – 40 °C (32 – 104 °F)**	25-1000 Lux +/- 8% at 0 – 40 °C (32 – 104 °F)
Output signal (I_{out})		0.1 V / 1 Lux* 0.2 V / 1 Lux**	0.1 V / 10 Lux
		Common	
Time constant	Sec.	Typ. 2 max. 15	
Supply voltage (V_{supply})	V DC	11 - 30	
Current	mA	12 no load 55 max. load	
Load	Ω	>500 – 10M	
Recommended load	k Ω	>100	

	Unit	Output 1	Output 2
Output current	mA	20 per output (current limited)	
Output impedance	Ω	<1	
Temperature, operation	°C (°F)	-40 – 60 (-40 – 140)	
IP classification	IP (NEMA)	67 (6)	
Cable		2 m (6.6 feet) 4 x 0.33 mm ² (22 AWG)	
Cable connection (only M12 variant)		M12 female connector with 2 m (6.6 feet) 4 x 0.33 mm ² (22AWG) cable	
Max. Cable length at 0.75 mm ²	m	100	
Max. Cable length at 1.50 mm ²	m	200	
Shipping weight	g (oz)	150 (5.3)	
Measurement, ship- ment	mm (inch)	275 x 200 x 20 (11 x 8 x 0.8)	

* 140266, 140268

** 140270, 140271

Dimensioned sketch



Dimensions In mm (inch).

