DOL 26SCR Serial

Capacitive sensor



For other language variants of this document we refer to www.dol-sensors.com or your local dealer.

1 Product description

DOL 26 is a capacitive sensor for detection of loose and solid materials.
SCR output versions are available in 2-wire versions.

DOL 26SCR Serial is suitable for serial connection of sensors on the same load.

The products are suitable together with contactors, relays, PLC's and similar within the agricultural and industrial sectors. DOL 26 is immune to EMI, short circuits and any overload. The mechanical design makes DOL 26 ideal for integration into applications with limited space. The full-return option is especially suited for feeding pans. Very low power consumption in off state – enables possibility for sensors working in parallel on the same contactor. Unique possibility for controlling cross auger systems.

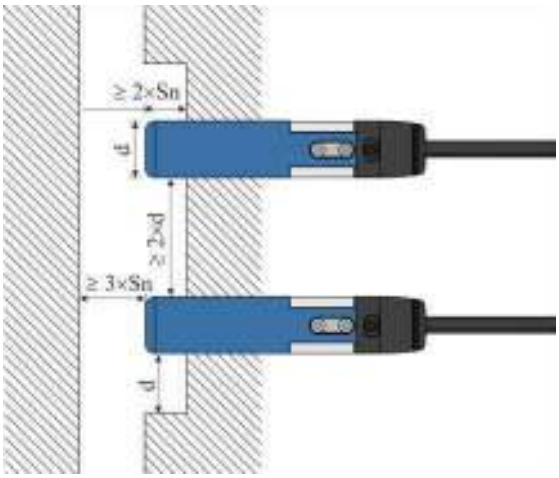
2 Mounting guide



Smooth version mounted within a PG 21 gland



Threaded version mounted with M18 nut.

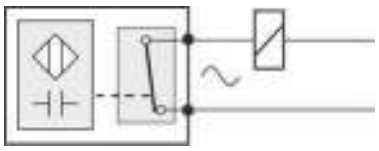


Mounting restrictions for non-flush (side sensitive version)

3 Installation guide



Installation, servicing and troubleshooting of all electrical equipment must be carried out by qualified personnel in compliance with the applicable national and international standard EN 60204-1 and any other EU standards that are applicable in Europe.



DOL 26SCR

DOL 26SCR:

Connect the sensor in series with the load. The polarity is unimportant.

The sensor is protected against overload and short circuit. If the output current exceeds the nominal output current, the output function is switched off. Remove the short circuit or choose a smaller load to remove the error. The current limitation error is indicated on the sensor by double flashes followed by a pause.

LED indication	DOL 26 SCR seriel status
RED OFF	Sensor output is OFF
RED slow flashing	Sensor delay is active
RED double flashing	Sensor load error (overcurrent protection is active) MaxRunTimer is active (optional)
RED ON	Sensor output is ON

Adjustment

DOL 26 has trimmers with different functions depending on its type for adjustment.

4 Technical data

		DOL 26SCR Serial
Electrical		
Supply voltage (Ue)	V AC/DC	20 - 280
Frequency	Hz	47 - 63
Max. Current	mA AC/DC	500
Inrush current	A	< 2,5A @ 100 ms
Direct connection to Ue (current >> 500 mA) without damage to the sensor	times	>10
Min. ON current	mA AC/DC RMS	< 10 (Ue = 20 - 280)
OFF current	mA AC/DC RMS	< 3 (Ue = 20 - 280)
Voltage drop, output ON	V AC/DC	< 6
Specifications		
Detection speed	Hz	< 15
Time delay, start-up	ms	265
Time delay, ON*	s	0 - 600
Time delay, OFF* (adjustable)	s	0.1 - 600
Activation distance (Sn)* (adjustable)	mm (inches)	0 – 12 (0 – 0.47)
Safe activation distance	mm (inches)	4 – 10 (0.16 – 0.39)
Repeatability	%	5
Hysteresis	%	4 - 10
MaxRunTimer* (3 settings)	s	Off / Period 1 / Period 2
Number of single turn 240° potentiometer		0, 1 or 2
Number of outputs		1
Type of output		NO or NC
Mechanical		
Sensor length	mm (inches)	89 (3 1/2)
Sensor diameter (d)	mm (inches)	18 (11/16)
Cable dimensions	mm2 (AWG)	2x0.5 (2xAWG20)
Cable length	m(ft.)	2 (6.6)

		DOL 26SCR Serial
Cable type		UL2517
Weight incl. cable	g (oz)	170 (6)
Environment		
Operating temperature	°C (°F)	-20 to +70 (-4 to +158)
Operating temperature, USA and Canada, Ie < 300mA	°C (°F)	-20 to +70 (-4 to +158)
Operating temperature, USA and Canada, Ie < 500mA	°C (°F)	-20 to +65 (-4 to +149)
Temperature, storage	°C (°F)	-40 to +80 (-40 to +176)
Protection class	IP	69k (DIN 40050-9)
	NEMA	1, 3, 4, 6, 12, 13
Approval		CE, UL, C-UL

*Option – can be changed / introduced upon request. See the current functions on the product label.

604354 • 2023-08-31 • en-US • Made in Denmark