

iDOL 20SCR (2-wire capacitive sensor)

PRODUCT

- iDOL 20SCR is a 2-wire capacitive sensor for detecting loose and solid materials.
- iDOL 20SCR is extremely sturdy to error situations such as short circuits and overload.
- The product is suitable together with contactors, relays and similar within the agricultural and industrial sectors.
- The mechanical design makes iDOL 20SCR ideal for integration into applications with limited space.

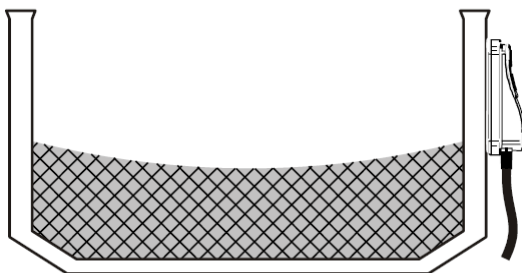


FUNCTIONALITY

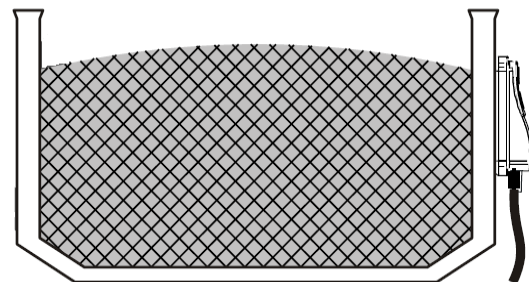
- iDOL 20SCR can be supplied with 20-280 VAC/VDC and a max. current (I_a) of 500 mA.
- The sensitivity of the sensor can be adjusted using the SmartAdjust App to suit different types of feed.
- The ON and OFF delay of the sensor can be adjusted using the SmartAdjust App to suit different motor control units.
- The Output function (reverses the ON/OFF function of the sensor) can be adjusted using the SmartAdjust App.

ACCESSORIES

- 522237 Frame for attaching the sensor to level surfaces
 - Available with iDOL 20SCR
- 140135 DropTube for fitting / adjusting the sensor to feed drop systems



ON



OFF

LED indication

- LED OFF
- LED is flashing fast
- LED is flashing slowly
- LED ON

Sensor status

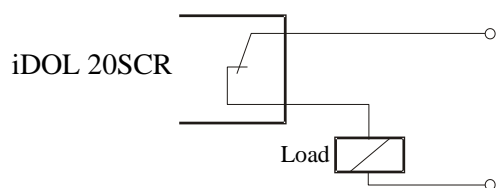
- Sensor is OFF
- ON or OFF delay is active
- The sensor is not programmed, factory settings are used
- Sensor is ON

TECHNICAL DATA

Specifications	Parameter	Unit
Rated voltage (U _r)	20 - 280	VAC
	20 - 280	VDC
Frequency	47 - 63	Hz
Max. current (I _e)	500	mA
Direct connection to U _e (current >> 500 mA) without damage to the sensor	>10	Times
Min. ON current (I _m)	<10 (U _e = 20 - 90)	mA RMS / mA DC
	<4 (U _e = 90 - 280)	
OFF current (I _r)	<3 (U _e = 20 - 90)	mA RMS / mA DC
	<1 (U _e = 90 - 280)	
Voltage drop (U _d) (current > 20 mA)	<6	V RMS / V DC
Time delay, start-up	<150	ms
Time delay, ON (adjustable)	0 - 3600	s
Time delay, OFF (adjustable)	0 - 3600	s
Operating distance (S _n) (adjustable)	0 - 12 (0 - 0.47)	mm (inches)
Safe activation distance (S _a)*	4 - 10 (0.16 - 0.39)	mm (inches)
Repeatability (R)	5	%
Hysteresis (H)	4 - 10	%
MaxRunTimer* (adjustable)	0-7200	s
LED indicator for sensor ON	Red LED	
Temperature, operation	-20 - +70 (-4 - +158)	°C (°F)
Temperature, operation, US and Canada, I _e < 300 mA	-20 - +70 (-4 - +158)	°C (°F)
Temperature, storage	-40 - +80 (-40 - +176)	°C (°F)
Protection class	69 k	IP
	1, 3, 4, 6, 12, 13	NEMA
Cable length*	1.5 (4.9)	m (ft.)
Cable conductor size	2x0.5 (2x20)	mm ² (AWG)
Frame for mounting sensor	Included	
Approvals	CE, C-UL, UL	

*Option – can be changed upon request. See the current functions in the product label.

CHART SHOWING SENSOR AND LOAD



SENSOR DIMENSIONS

