



RCL40/41/43

Inductive cylinder sensor 50-1500mm

- Non-contact technology
- Regal design and dimensions
- Long life time

RCL40/41/43-series are linear position sensors for designed to be mounted inside hydraulic and pneumatic cylinders.

A robust sensor for very demanding applications and environments, even water hydraulics. The inductive sensor has a non-contact technology which offers extreme long lifetime. The technology can also handle a large temperature range.

The system is composed of a sensor and an control box. The quick and stable analogue electronics offer voltage and current output.

Sensors

Sensors are available in three different versions:

- RCL40 with ~40 cm wires for mounting with cylinder connector
- RCL41 with PUR cable output for a direct connection to the electronics via cable gland on the cylinder. Options of 5 or 10 m cable.
- RCL41P with sealed PUR cable output for a direct connection to the electronics via cable gland on the cylinder. Options of 5 or 10 m cable. Submersible to 50 mH20.

The sensors are manufactured in steps of 50 mm from 50 to 1500 mm stroke length.

Controller

There are two different options of control box:

- RCL41, DIN-module with alarm for failure in the sensor.*
- RCL43, Aluminium boxed electronics with alarm for failure in the sensor.*
 - * Sensor failure gives output < 4 mA.

The control box is calibrated for each length. Both options of control box can be used with each version of sensor.

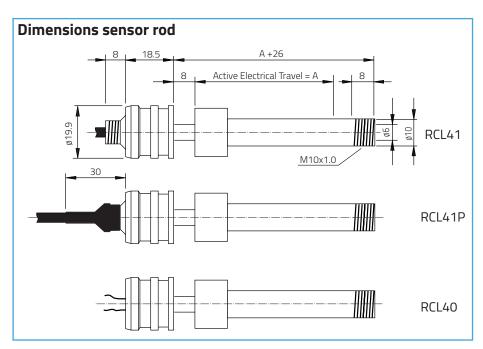


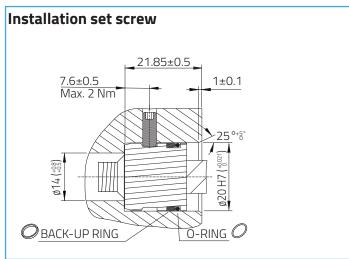
SPECIFICATION	
Power supply	9 - 30 VDC
Output	
Voltage output	0 - 5 V
Current output	4 - 20 mA
Linearity	±0.3%, max ±0.5%
Response time	6 ms
Max. cable lenght sensor - electronics	50 m
Effective stroke	50 - 1500 mm
Temperature	
Sensor rod	-40°C+155°C
Electronics	-25°C+85°C
Temperature coefficient	Max 0.03 %/°C
Material	
Sensor header	Stainless steel
Sensor rod	Stainless steel AISI 316
Sensor tube	Aluminium
Flange sensor tube	POM
Working pressure	350 bar
Vibration	IEC 60068-2-6 (10-150 Hz, 0.35 mm/5 g. 90 min. per axis) IEC 60068-2-27
Shock	(1000 g half sine, 1 ms. 2 shocks per axel)
Electromagnetic immunity	EN 50082-2
Electromagnetic emission	EN 50081-2

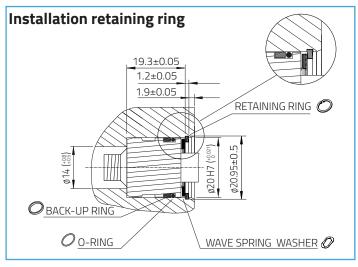
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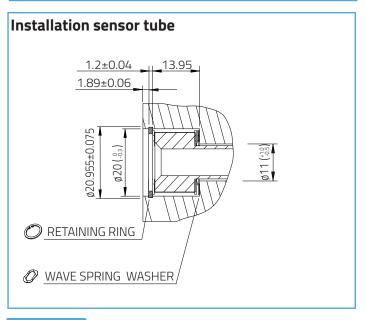
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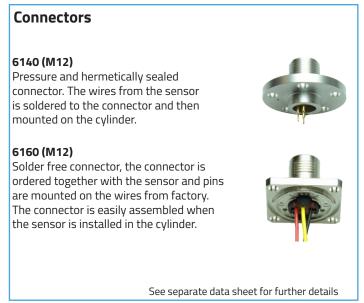
ORDER INFORMATION SENSOR ROD		
RCL		
1 Model		
Wire output	40	
Cable output	41	
Sealed cable outout	41P	
2 Stroke length		
50 mm to	0050	
1500 mm (in 50 mm steps)	1500	
3 Cable length		
RCL40	Blank	
RCL40 and 41P 5m	5	
RCL40 and 41P 10m	10	
Ex. RCL41-0100/5		







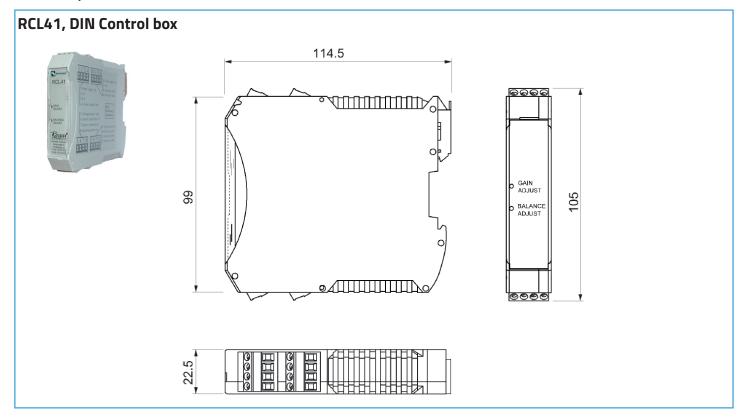


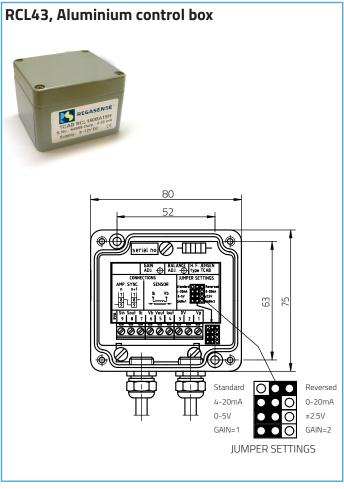


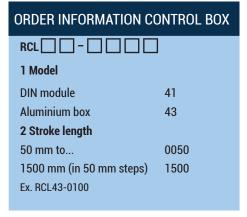


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CONNECTIONS			
Terminal	Functio	Functions	
1	±24 VDC		
2/3	GND (0 V)		
4	Output 4-20 mA or 0-20 mA		
5	Output 0-5 V or −2,5+2,5 V		
	RCL40-sensor	RCL41-sensor	
6	Black (Vb)	White (Vb)	
7	Red (Ib)	Brown (lb)	

