SC1820 analog output - Measurement range 0 up to 20 000 mm

Specifications:

Resolution

Measurement range 0 up to 20 000 mm Output signal 0...10V (galvanic isolation)

4...20mA current loop

4...20mA current generator (galvanic isolation) 0...20mA current generator (galvanic isolation) Quasi infinite (depends on the operating system)

Material Body and cover - aluminium (RohS)

Measuring cable - Stainless steel

Cable diameter 0,90 mm

Multi-turn Hybrid potentiometer Detection element Connection Male connector M16 - DIN 8 pin

Male connector M12 - 4 pin PVC cable - 4 wires

Standard linearity +/- 0,15% f.s.

+/- 0,10% f.s. (optional)

Protection class **IP65** Max. Velocity 10 m/s

2 m/s2 (before cable deformation) Max. Acceleration

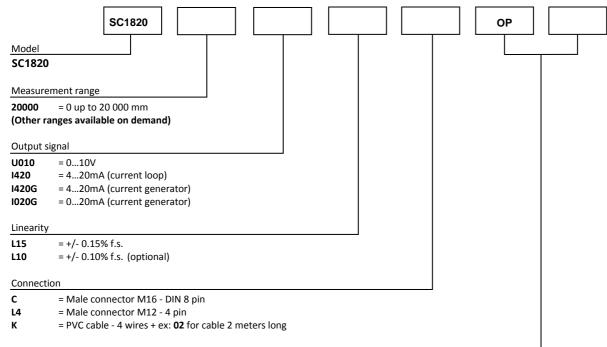
Weight ≈ 12 kg -20° to +80°C Operating temperature Storage temperature -30° to +80°C



Cable forces:

Measuremen range in mm	Min. pull-out force	Max. pull-out force	
20 000	≈ 15,00 N	≈ 30,00 N	

Ordering reference:



OP Options

AC = Complete anodizing

= Cleaning brush for the cable BR BT = Low temperature (down to -30°C) СР = Fixing of the measuring cable with a clevis

IP67 = Protection class IP67

= Fixing of the measuring cable with a M6 threaded rod

= Water evacuation holes + ex. 180 for 180° holes (see the options page for further details)

Reference example: SC1820-20000-U010-L15-K02-OP-AC-M6



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Electrical characteristics:

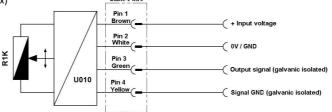
Analog version 0 ... 10V:

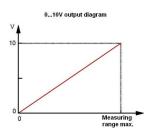
Input voltage 15 to +27 Vdc (52mA max)

Output voltage 0 to 10 Vdc 10mA max Output current Galvanic isolation 3KV

- Short circuit Protection

- Polarity reversal +/-100 ppm/°C Temperature drift



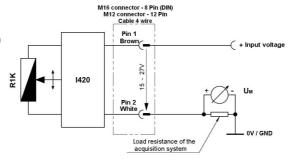


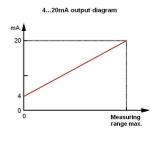
Analog version 4 ... 20mA: (Current loop)

+15 to +27 Vdc (32mA max)

4 to 20mA Output current Protection - Short circuit - Polarity reversal

+/-100 ppm/°C Temperature drift





Analog version 4...20mA or 0...20mA: (Current generator)

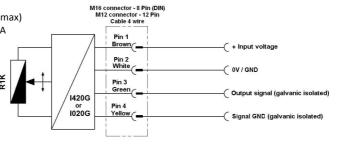
Input voltage +15 to +27 Vdc (75mA max) Output current 4 to 20mA or 0 to 20mA

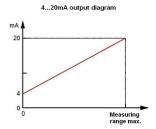
Output current 22 mA max. 3KV Galvanic isolation

Protection - Short circuit

- Polarity reversal

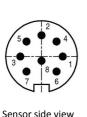
Temperature drift +/-100 ppm/°C

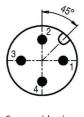




Connection:

Male connector M16 8 pin (DIN)	Male connector M12 4 pin (DIN)	PVC cable 4 wire	010V	l420 (current loop)	I420G or I020G (current generator)
1	1	Brown	Input voltage +	Signal +	Input voltage +
2	2	White	Input voltage GND	Signal -	Input voltage GND
3	3	Green	Signal +		Signal +
4	4	Yellow	Signal GND		Signal GND





Sensor side view

Sensor side view



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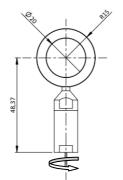
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Cable attachment head:

Standard

Measuring cable attachment with a lug. The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.

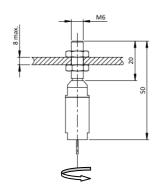


Cable attachment fitted with a M6 threaded rod:

OP-M6

The rod attachment uses a threaded rod with 2 nuts (provided). The required thickness of the plate does not exceed 8mm.

The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.

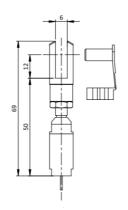


Cable attachment with a clevis:

OP-CP

The attachment of the clevis is done using a pin (provided).

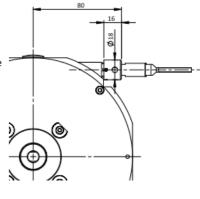
The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.



Cleaning brush for the cable:

OP-BR

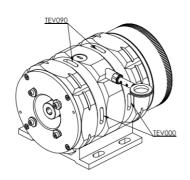
The cleaning brush wipes the cable in dusty or humid environments.



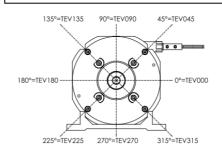
Water evacuation holes:

OP-TEV

The holes allow the natural flow of fluids out of the sensor in order to avoid their accumulation in the system.



Please specify the implantation angle of the drain holes on the drawing below.
(All value between 0 and 360°)

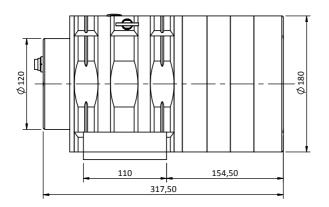


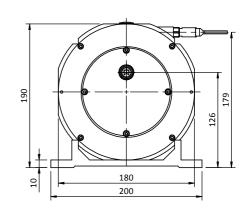


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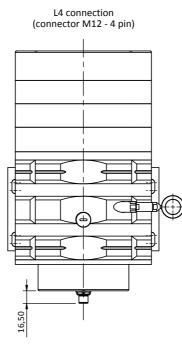
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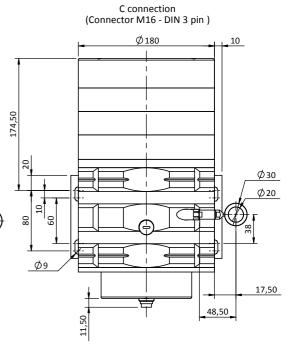
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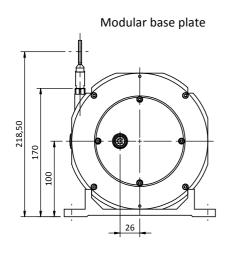


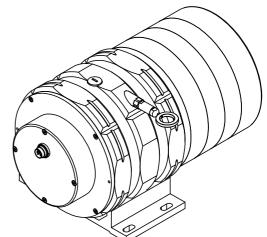


K connection
(PVC cable - 4 wires)











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