SC80 analog output - Measurement range 0 up to 2000 mm

Specifications:

Resolution

Measurement range 0 up to 2000 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 0,60 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 IP54 (option IP67)

Max. Velocity 10 m/s

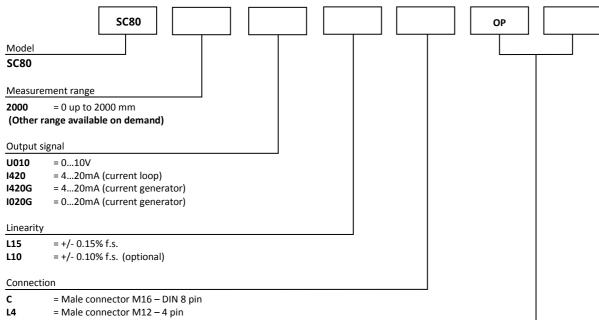
8 m/s2 (before cable deformation) Max. Acceleration

Weight ≈ 1500 g -20° to +80°C Operating temperature Storage temperature -30° to +80°C

Cable forces:

Measurement range in mm	Min. pull-out force	Max. pull-out force
2000	≈ 8,00 N	≈ 11,00 N

Ordering reference:



Κ = PVC cable - 4 wires + ex: 02 for cable 2 meters long

OP Options

AC = Complete anodizing BR = Cleaning brush for the cable ВТ = Low temperature (down to -30°C) = Fixing of the measuring cable with a clevis CP ΕM = Fixing of the measuring cable with a clip

IP67 = Protection class IP67

M4 = Fixing of the measuring cable with a M4 threaded rod

TFV = Water evacuation holes

Reference example: SC80-2000-U010-L15-K02-OP-AC-EM



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Electrical characteristics:

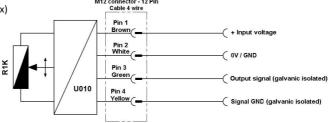
Analog version 0 ... 10V:

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

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

- Short circuit Protection

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

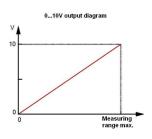


M16 connector - 8 Pin (DIN) M12 connector - 12 Pin Cable 4 wire

+ Input voltage

Pin 1

1420



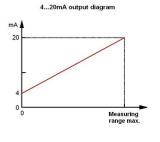
Analog version 4 ... 20mA: (Current loop)

+15 to +27 Vdc (32mA max)

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

Temperature drift

+/-100 ppm/°C



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

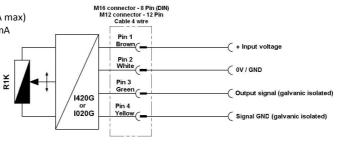
Input voltage +15 to +27 Vdc (75mA max) Output current 4 to 20mA or 0 to 20mA

Output current 22 mA max. Galvanic isolation 3KV

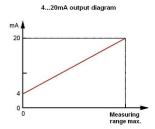
Protection - Short circuit

- Polarity reversal

Temperature drift +/-100 ppm/°C

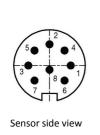


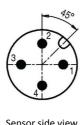
Load resistance of the acquisition system



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



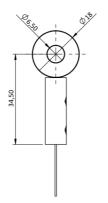


Sensor side view

Cable attachment with a lug:

Standard

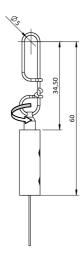
The attachment lug is fixed with a M6 screw or a clevis.



Cable attachment with a clip:

OP-EM

This fastening system allows a rotation about its axis.
The clip is fixed with a M4 screw or a clevis.



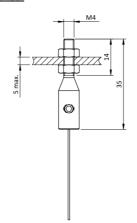
Cable attachment fitted with a M4 threaded rod:

OP-M4

The rod attachment uses a threaded rod with 2 nuts (provided). The required thickness of the plate does not exceed 5 mm.

Caution

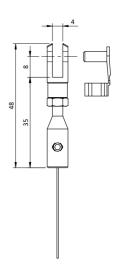
Never screw the threaded rod into a fixed nut, a twist of the measurement cable would damage it.



Cable attachment with a clevis:

OP-CP

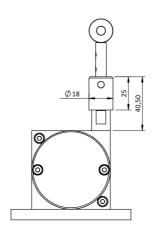
The attachment of the clevis is done using a pin (provided).



Cable cleaning brush:

OP-BR

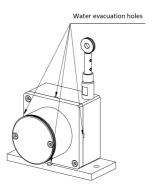
The cleaning brush wipes the cable in dusty or humid environments.



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.



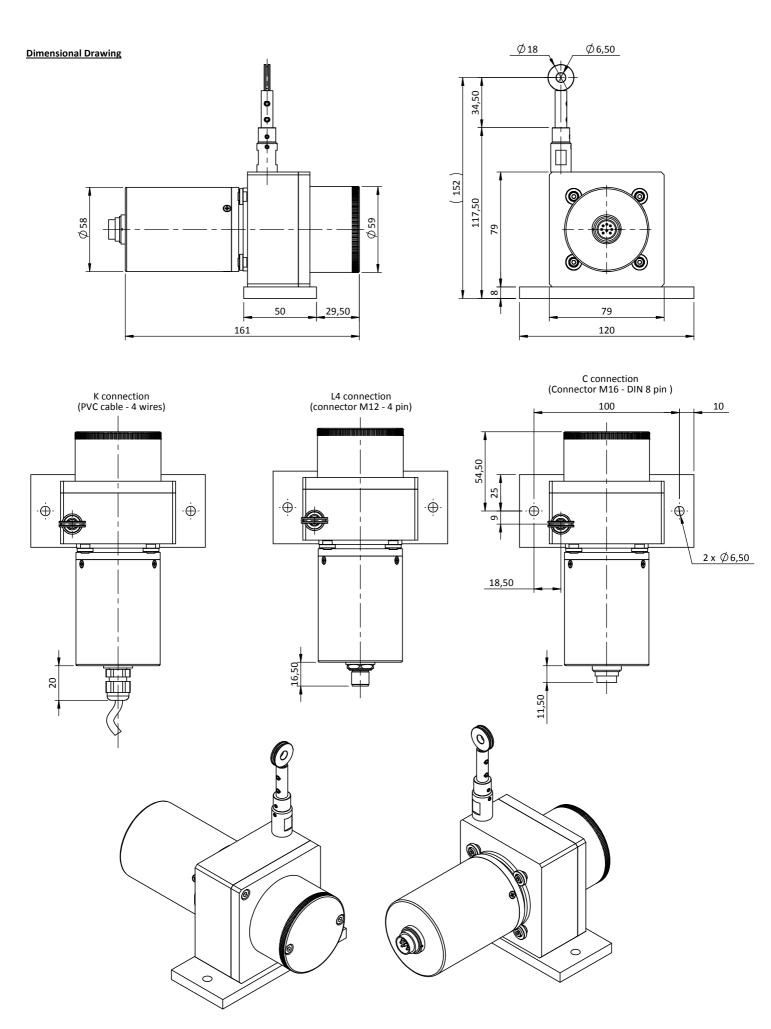


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