

SC120 analog output – Measurement range 0 up to 3000 mm

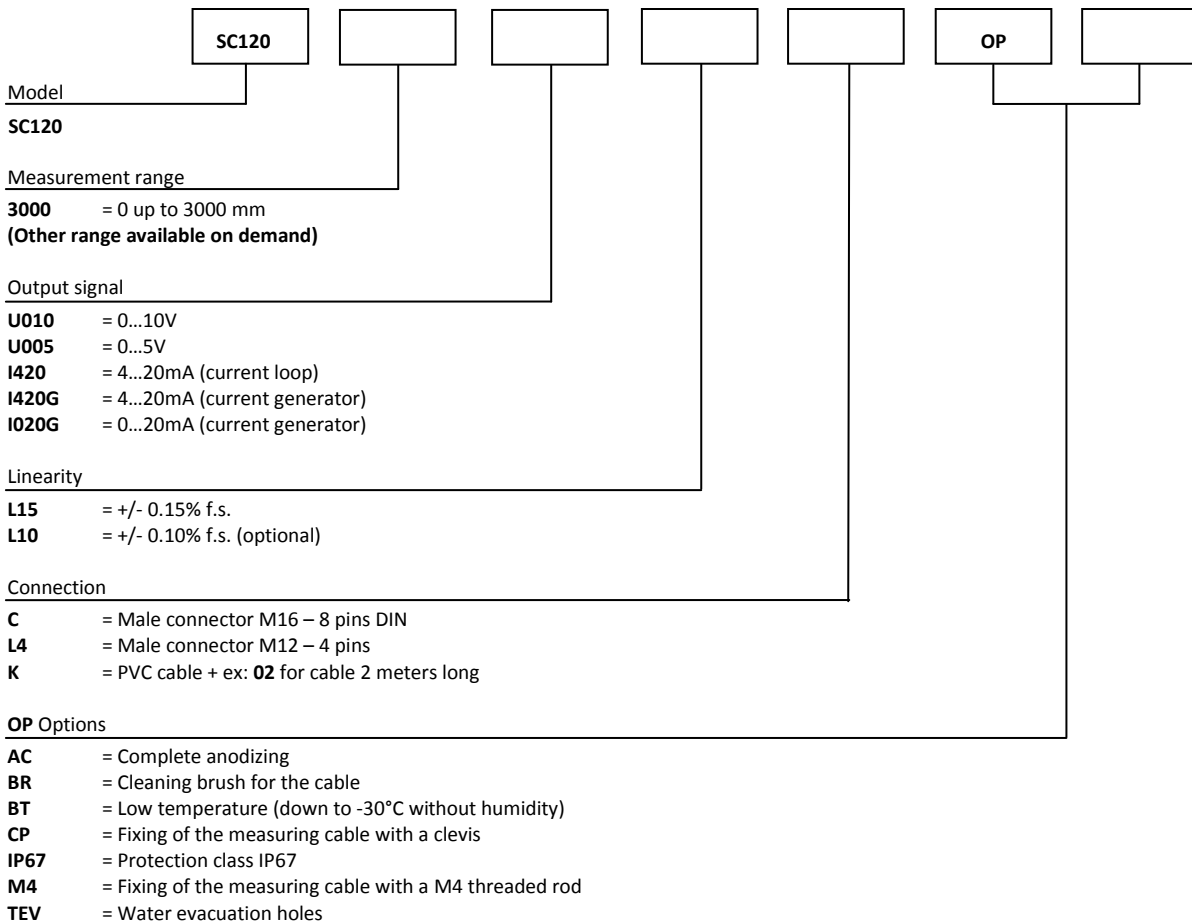
Specifications:

Measurement range	0 up to 3000 mm
Output signal	0...10V (galvanic isolation) 0...5V (galvanic isolation) 4...20mA current loop 4...20mA current generator (galvanic isolation) 0...20mA current generator (galvanic isolation)
Resolution	Quasi infinite (depends on the operating system)
Material	Body and cover - aluminum (RohS) Measuring cable – Stainless steel 316L
Cable diameter	0,60 mm
Detection element	Precision potentiometer
Connection	Male connector M16 – 8 pins DIN Male connector M12 – 4 pins PVC cable
Standard linearity	+/- 0,15% f.s. +/- 0,10% f.s. (optional)
Protection class	IP54 (option IP67)
Max. Velocity	10 M/S
Max. Acceleration	7 M/S ² (before cable deformation)
Weight	≈ 2000 g
Operating temperature	-20° to +80°C
Storage temperature	-30° to +80°C

Cable forces:

Measurement range in mm	Min. pull-out force	Max. pull-out force
3000	≈ 13,00 N	≈ 18,00 N

Ordering reference:



Reference example: SC120-3000-U010-L15-K02-OP-AC-M4



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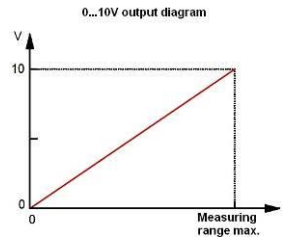
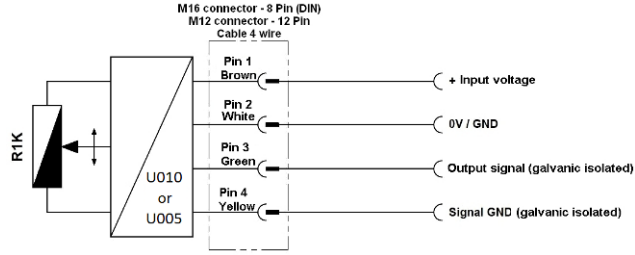
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Electrical characteristics:

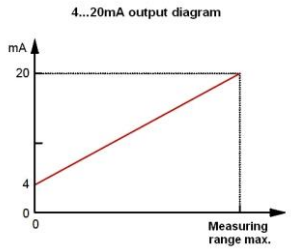
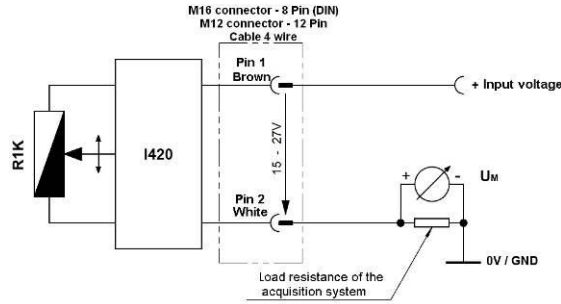
Analog version 0 ... 10V or 0 ... 5V:

Input voltage +12 to +27 Vdc (52mA max)
 Output voltage 0 to 10 Vdc or 0 to 5 Vdc
 Output current 10mA max
 Galvanic isolation 3KV
 Protection - Short circuit
 - Polarity reversal
 Temperature drift +/-100 ppm/°C



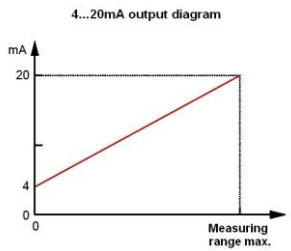
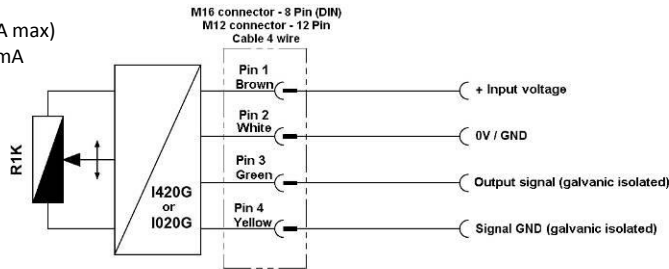
Analog version 4 ... 20mA : (2-wires Current loop)

Input voltage +12 to +27 Vdc (32mA max)
 Output current 4 to 20mA
 Protection - Short circuit
 - Polarity reversal
 Temperature drift +/-100 ppm/°C



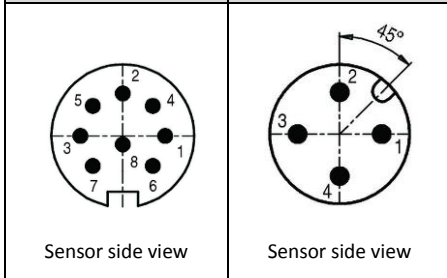
Analog version 4...20mA or 0...20mA : (Current generator)

Input voltage +12 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



Connection:

Male connector M16 8 pin (DIN)	Male connector M12 4 pin (DIN)	PVC cable 4 wire	U010 or U005	I420 (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



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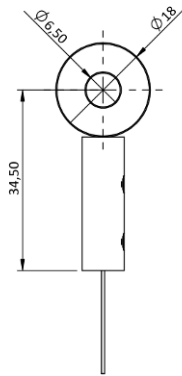
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Options:

Cable attachment with a lug :

Standard

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



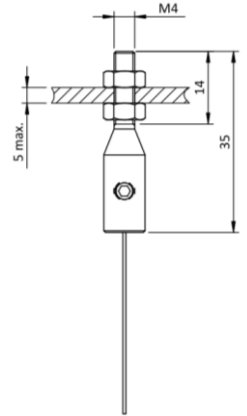
Cable attachment fitted with a M4 threaded rod:

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

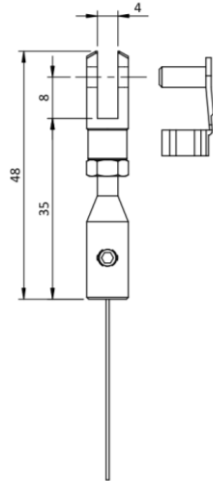
Never screw the threaded rod into a fixed nut, a twist of the measurement cable would damage it.



Cable attachment with a clevis :

OP-CP

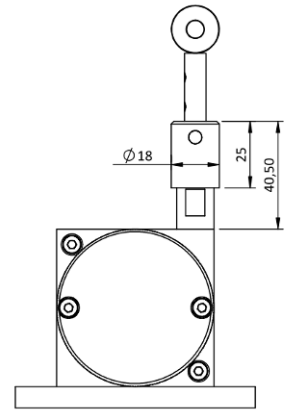
The attachment of the clevis is done using a pin (provided).



Cable cleaning brush:

OP-BR

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



Dimensional drawing:

