

SL76/80-AC

STRAIN LINK SENSOR WITH AC AMPLIFIER





Main features

- · Amplifies the strain between the 2 mounting areas mechanically
- Ideal for tension mode
- With integrated AC coupling amplifier (active)
- For Dynamic applications (even fast)
- · Ideal on fast running Presses
- · Solid steel housing (IP54)

Strain link sensors picks up surface-strain between the 2 mounting locations.

The strain occuring between the mounting areas is mechanically amplified inside of the sensor.

The integrated AC amplifier supplies a signal that needs no reset -> the signal drops even if the load remains present.

Ideal for very fast cycles where a reset between the cycles is not possible.

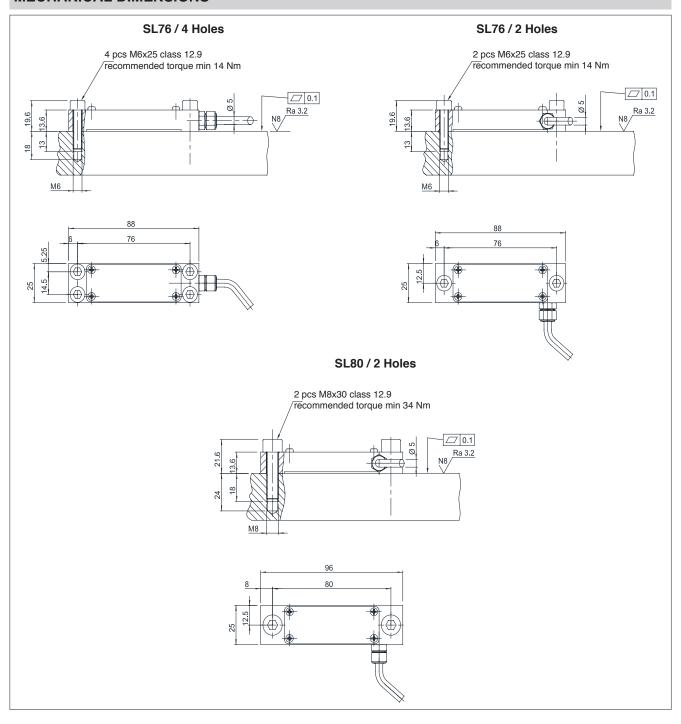
The controler only needs to measure the output signal periodically.

Thanks to the rugged design, this sensors are used in heavy industrial environment.

TECHNICAL DATA

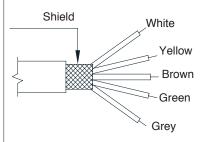
Otroin according	F-:1 (OF 0.0)	
Strain gauge type	Foil (GF = 2.0)	
Bridge resistance	350Ω	
Measuring range	100800με, -100250με	
Span adjustment	±15% FS	
Zero adjustment	±50% FS	
Low-pass filter	150Hz	
Output signal	0±10VDC	
Noise	<10mV	
Sensitivity tolerance	± 1%	
Accuracy	<± 1% FS	
Linearity	<±0.5% FS	
Hysteresis	<±0.3% FS	
Repeatability	< 1% (max 2%)	
Output resistance	10Ω	
Time constant AC-coupling (97%)	68s	
Supply voltage	2028VDC	
Supply current	<20mA	
Inverse polarity protection	Yes	
Accidental short-circuit protection	Yes	
Operating temperatur range	-1065°C	
Storage temperatur range	-1065°C	
Temperature coefficient at 10°C	< 0.2 (0.1 typical)	
Overload capability	indefinite (offset occurs)	
Protection class	IP54	
EMC	2014/30/EU	
Case material	Steel	
Cover material	Aluminium	
Weight, including cable	110g	

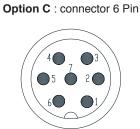
MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS

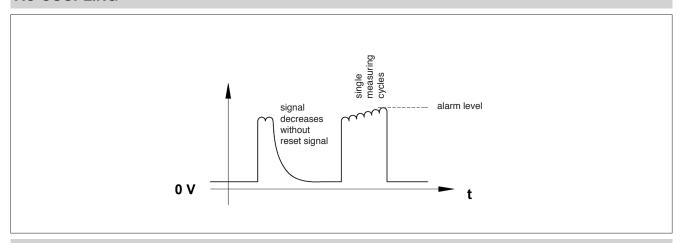
Option 0 : PUR screened cable (standard); 5 x 0,14; Ø 5mm; bending 10xØ



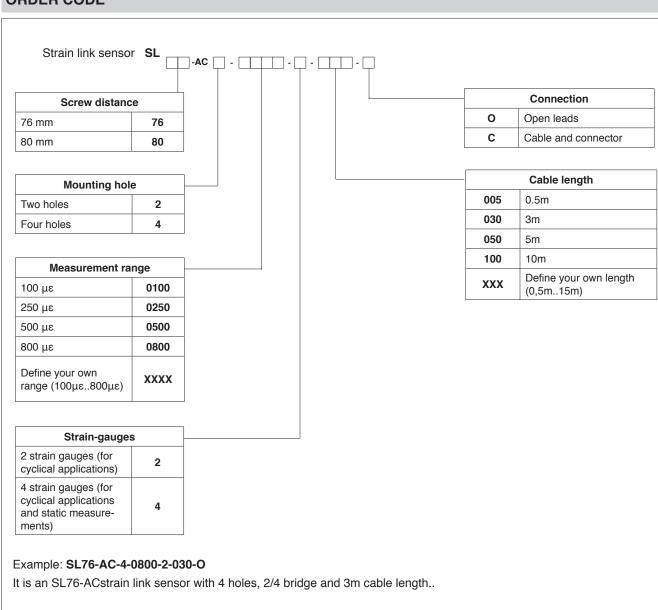


OPTION O: (CABLE OUTPUT)	OPTION C (CONNECTOR OUTPUT)	FUNCTION
White	1	Power (24V)
Brown	2	Test-Out
Green	4	Reset
Yellow	3-7-6	GND (0V)
Grey	5	Signal +

AC-COUPLING



ORDER CODE



GEFRAN spareserves the right to make any kind of design or functional modification at any moment without prior notice.



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