GEFRAN

SL76/80-VDA268



STRAIN LINK SENSOR WITH VARIABLE DIGITAL AMPLIFIER 268





Main features

- Amplifies the strain between the 2 mounting areas mechanically
- · Ideal for tension mode
- With high end digital amplifier type 268 (active)
- · Mainly for dynamic applications
- · Use don presses and injection moulding machines
- · 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 digital amplifier processes the signal on the spot, avoiding EMC problems.

Thanks to the rugged design, this sensors are used in heavy industrial environment. In case of overload, this sensor may get an offset.

After replacing a SL-Sensor, they need to be recalibrated. They need a cyclical reset (for cycles >1min.).

Our amplifier can handle the occuring large offset range.

TECHNICAL DATA

Strain gauge type

Foil (GF = 2.0)

Bridge resistance

350Ω

Measuring range

100...800με,-100...-250με

Span adjustment

±200% FS

Zero adjustment

±500% FS

Sampling rate

8kHz

Output rate

8kHz

Low-pass filter

1kHz

Output signal

0...±10VDC, 4...20mA, CANOpen, RS485/RS422

Noise

< 25mV

Sensitivity tolerance

± 1%

Accuracy

< ± 0,5% FS

Accuracy of zero point

< ± 0,1% FS

Linearity

 $< \pm 0.5\% FS$

Hysteresis

 $< \pm 0.3\% FS$

Repeatability

< 1% (max 2%)
Output resistance

10Ω

Reset time

> 25ms

Reset voltage

15...28VDC, 0VDC

Supply voltage 20...28VDC

Supply current

< 60mA

Inverse polarity protection

Yes

Accidental short-circuit protection

Yes

Operating temperatur range

-10...65°C

Storage temperatur range

-10...65°C

Temperature coefficient at 10°C

< 0,1 (0,05 typical)

Overload capability

indefinite (offset occurs)

Protection class

IP54

EMC

2014/30/EU

Case material

Steel

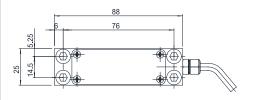
Cover material

Aluminium

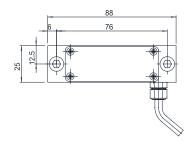
Weight, including cable

110g

MECHANICAL DIMENSIONS

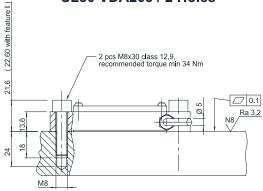


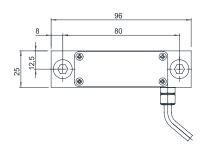
SL76 VDA268 / 2 Holes 1 purple of the property of the propert



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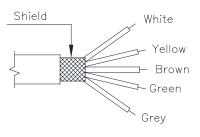
SL80 VDA268 / 2 Holes



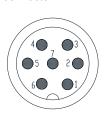


ELECTRICAL CONNECTIONS

Option O : PUR screened cable (standard); 5 x 0.14; Ø 5mm; bending 10xØ

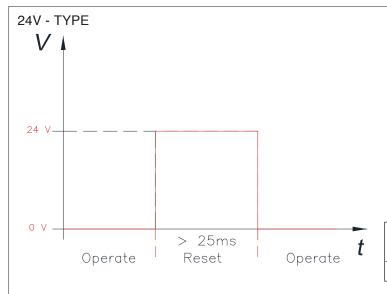


Option C : connector 7 Pin



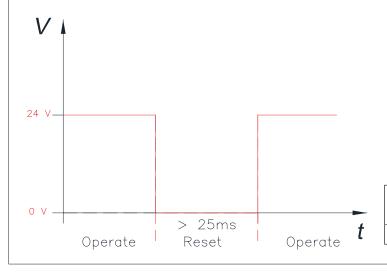
OPTION O (CABLE EXIT)	OPTION C (CONNECTOR OUTPUT)	FUNCTION
White	1	Power (24V)
Grey	5	Signal +
Green	4	Reset
Yellow	3-7	GND
Brown	6	Signal —

RESET FUNCTION



Deast control innut	Reset	1528V
Reset control input	Operate	0V/open
Minimum reset pulse duration	>25ms	

0V - TYPE



Deast control innut	Reset	ov
Reset control input	Operate	528V/open
Minimum reset pulse duration	>25ms	

ORDER CODE Strain ring sensor SL ___ -VDA268- __ - ___ Screw distance **Feature** 76 mm 76 peak-hold negative 80 mm 80 P peak-hold positive Output 4mA..20mA Mounting hole (instead of 0...±10V) Two holes 2 С CANOpen-Interface Four holes 4 R RS485-Interface 0 no features Measurement range 100 με 0100 250 με 0250 Reset 500 με 0500 External reset (24V), without power-on reset 800 με 0800 HO (5·10⁵ reset cycles Define your own range **XXXX** allowed) (100με..800με) External reset (24V), with HR power-on reset (infinite Strain gauges reset cycles allowed) External reset (0V), 2 strain gauges 2 without power-on reset (for cyclical applications) LO (5·10⁵ reset cycles 4 strain gauges (for cycliallowed) External reset (0V), with cal applications and static 4 measurements) LR power-on reset (infinite reset cycles allowed) Cable length ST Static (no external reset) 0.5m 005 3m 030 Connection 5m 050 0 Cable 100 10m С Cable and connector

Example: SL76-VDA268-4-0800-2-030-O -ST - P

XXX

It is an SL76-VDA strain link sensor with 4 holes, 2/4 bridge and 3m cable length.

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



GEFRAN

Define your own length

(0,5m..15m)

Sensormate AG

Steigweg 8, - CH-8355 Aadorf, Switzerland ph: +41(0)52-2421818 - fax: +41(0)52-3661884 Internet: http://www.sensormate.ch

via Sebina, 74 - 25050 PROVAGLIO D'ISEO (BS) - ITALY ph. +39 030 9888.1 - fax. +39 030 9839063 Internet: http://www.gefran.com