

SLB700A/06VA1 SLB700A/06VA2

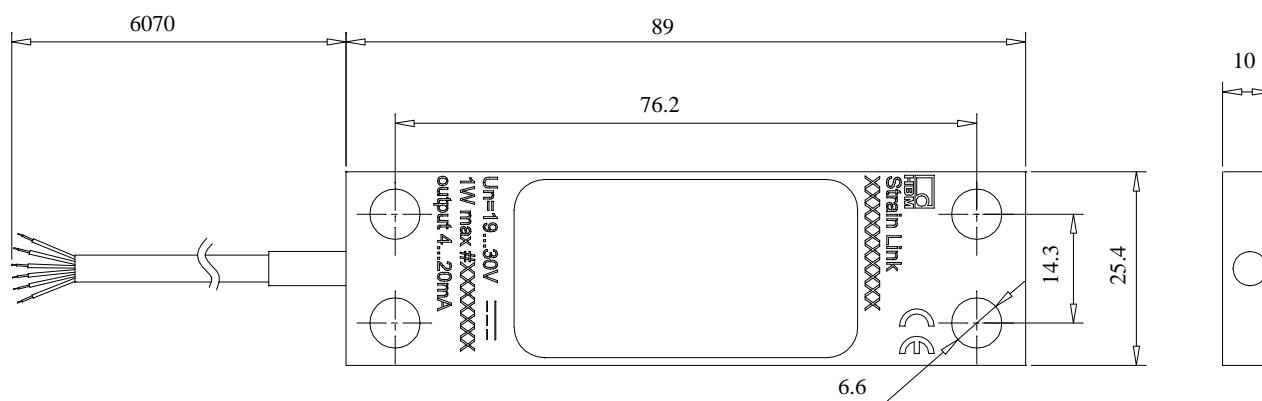
Strain transducer

Characteristic features

- For monitoring strain on statically and dynamically loaded components, e.g. on cranes, presses and roll stands
- Simple, bolted mounting
- Stainless steel
- Protected against environmental influences



Dimensions (in mm; 1 mm = 0.03937 inches)



Specifications

| Type | | SLB700A/06VA1 | SLB700A/06VA2 |
|---|------|--|---------------|
| Nominal (rated) measuring range | μm/m | 0 ... 500 | 0 ... 500 |
| Minimum operating range | μm/m | 0 ... 50 | 0 ... 50 |
| Zero signal (signal at zero point) | | 1 V | 5.5 mA |
| End signal (signal for end point) | | 9 V | 18.5 mA |
| Output signal spread | | 8 V | 13 mA |
| Output signal range | | -0.3 ... 11 V | 3 ... 21 mA |
| Relative linearity error | % | 0.5 | |
| Cut-off frequency (-1 dB) | Hz | 1000 | |
| Matched to material with a thermal expansion coefficient of | 1/°C | 12 · 10 ⁻⁶ | |
| Level control inputs IN1/IN2 | V | active (high): >10 V; inactive (low): <4 V | |
| Reference excitation voltage | V | 24 | |
| Nominal (rated) range of the excitation voltage | V DC | 19 ... 30 | |
| Max. current consumption | mA | 20 | |
| Nominal (rated) temperature range | °C | -10 ... 50 | |
| Operating temperature range | °C | -20 ... 60 | |
| Storage temperature range | °C | -40 ... 85 | |
| Maximum operating strain | μm/m | 750 | |
| Breaking strain | μm/m | 1500 | |
| Restoring force | N | approx. 3200 | |
| Vibration as per DIN EN 60068-2-6 | Hz | 10 ... 500 | |
| Maximal impact load as per DIN EN 60068-2-27 | g | 50 | |
| Degree of protection as per EN-60529 | | IP65 | |
| Tightening torque of mounting screws | | | |
| Minimum | N·m | 8 | |
| Nominal (rated) value | N·m | 16 | |
| Cable sheath | | PUR | |
| Cable length | m | 6 | |
| Cable diameter | mm | 3.5 | |

Pin assignment and order number

| Connection | Wire color | SLB700A/06VA1 | SLB700A/06VA2 |
|----------------------------------|------------|----------------------|----------------|
| Supply voltage | blue | 19 ... 30 V | 19 ... 30 V |
| Supply voltage | black | 0 V | 0 V |
| Output signal | white | 0 ... 10 V | 4 ... 20 mA |
| Output signal 0 V | gray | 0 V | No function |
| Control input IN1 (zero setting) | | red | |
| Control input IN2 (calibration) | | green | |
| Cable shield | | connected to housing | |
| Order number | | 1-SLB700/06VA1 | 1-SLB700/06VA2 |

Modifications reserved.

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