

SLB700A/06VA1 SLB700A/06VA2

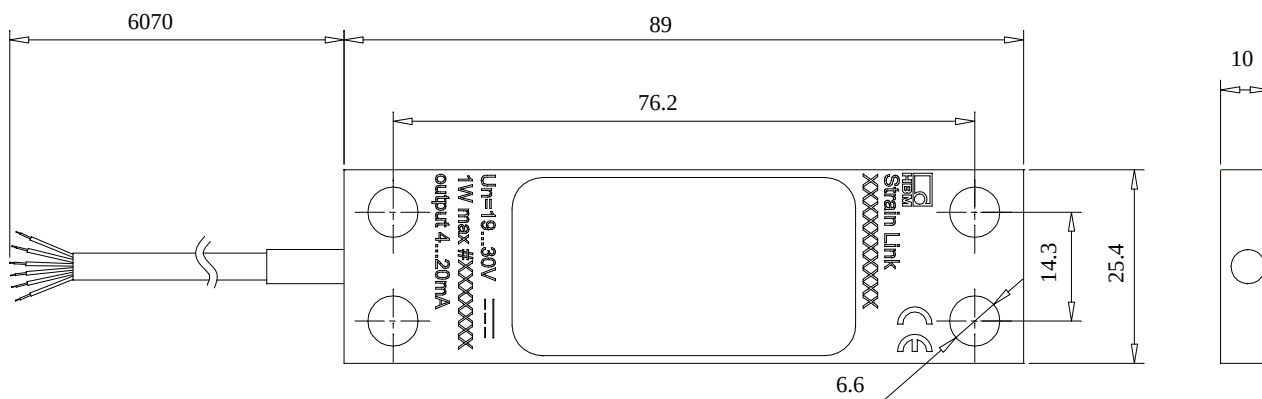
Strain transducer

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 Nominal (rated) value	N·m	8	
	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

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