

DATA SHEET

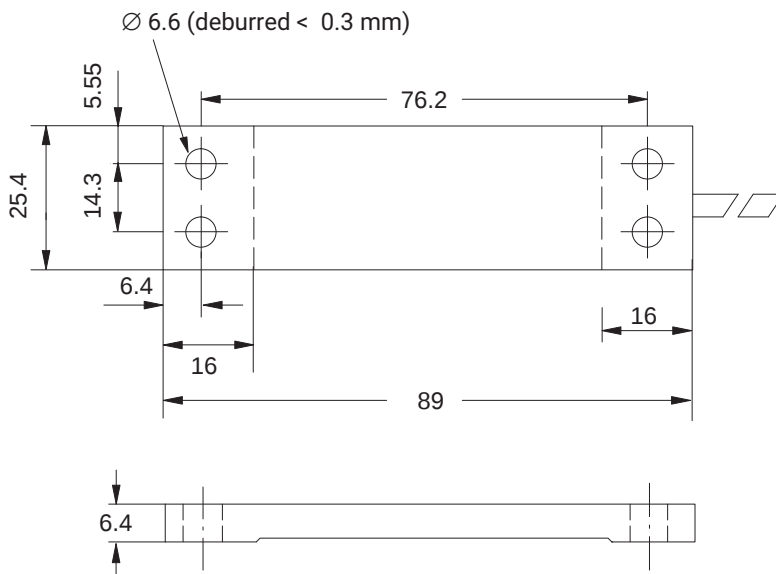
SLB-700A/06-1, SLB-700A/12-1 Strain Transducer

SPECIAL 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



four-wire cable
length 6 m (SLB-700A/06) or 12 m
(SLB-700A/12) $\varnothing$ approx. 3

SLB-700A cable wire assignment

Assignment	Color code
Excitation voltage (+)	blue
Excitation voltage (-)	black
Measurement signal (+)	white
Measurement signal (-)	red
Shield	connected to housing

Dimensions (in mm; 1 mm = 0.03937 inches)

SPECIFICATIONS

Type		SLB-700A/06	SLB-700A/12
Nominal (rated) measuring range	μm/m	0 ... 500	
Nominal (rated) sensitivity	mV/V	1.5 ±0.15	
Relative zero signal error	%	5	
Relative reversibility error	%	0.5	
Relative linearity error	%	0.5	
Effect of temperature on sensitivity, per 10 K	%	0.2	
Effect of temperature on zero signal, per 10 K	%	0.2	
Output resistance	Ω	1000 ±10	
Input resistance	Ω	> 1000	
Insulation resistance	Ω	> 5 · 10 ¹⁰	
Nominal (rated) range of the excitation voltage	V	2 ... 15	
Nominal (rated) temperature range	°C	-10 ... 40	
Operating temperature range	°C	-20 ... 60	
Storage temperature range	°C	-40 ... 85	
Adapted to a material with a thermal expansion coefficient of	1/°C	12 · 10 ⁻⁶	
Maximum operating strain	μm/m	750	
Restoring force	N	approx. 3110	
Breaking strain	μm/m	1500	
Max. permissible vibrational stress (per VDI/VDE 2638)	%	150	
Vibration (per DIN EN 60068-2-6)	Hz	10 ... 500	
Maximum impact load (per DIN EN 60068-2-27)	g	50	
Degree of protection (per DIN EN 60529)		IP65	
Mounting bolt tightening torque at least nominal (rated) value	N·m	8	
	N·m	16	
Cable sheath		PUR	
Cable length	m	6	12
Cable diameter	mm	3	
Min. bending radius, static	mm	22	
Min. bending radius, dynamic	mm	50	
Sensor weight	g	160	230
Sensor material		Stainless steel	
Ordering number		SLB-700A/06-1	SLB-700A/12-1

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