

S2

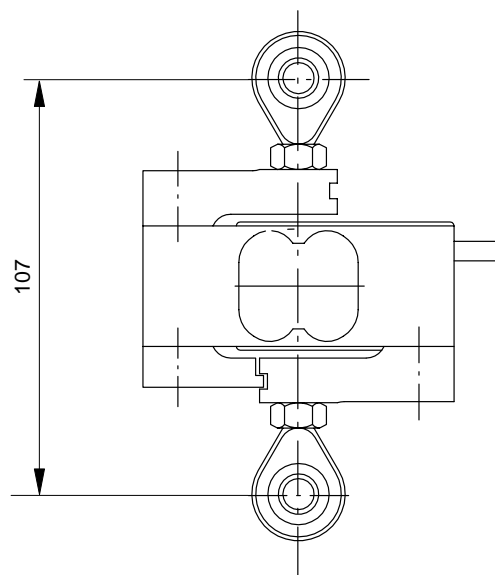
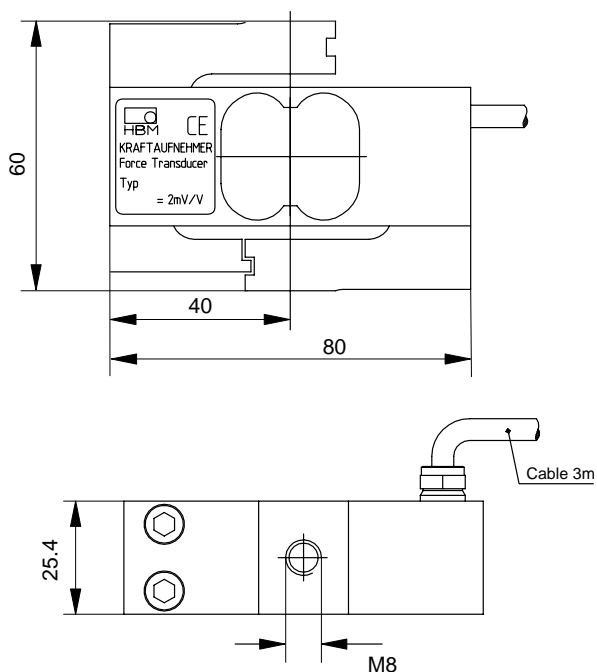
Force Transducers



Special features

- Tensile force / compressive
- Nominal forces 20 N ... 1 kN
- Accuracy class 0.05
- High transverse force stability
- Overload protection
- Low overall height

Dimensions (in mm; 1 mm= 0.03937 inches)

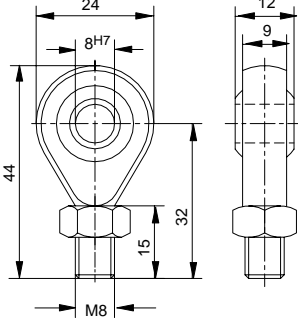


Specifications under VDI 2638

Force transducer type		S2						
Nominal force	F _{nom}	N	20	50	100	200	500	1000
Accuracy class			0.05					
Nominal sensitivity		C _{nom}	mV/V					
relative sensitivity deviation tensile/compressive force		d _c	%					
relative tensile/compressive sensitivity difference		d _{zd}	%					
relative deviation from zero		d _{s,0}	%					
Relative range of inversion (0.2F _{nom} to F _{nom})		u	%					
Linearity deviation		d _{lin}	%					
Temperature effect per 10 K by reference to nominal sensitivity to sensitivity to zero signal		TK _C	%					
		TK _c	%					
Effect of transverse forces (transverse force 10 % F _{nom}) ^{*)}		d _Q	%					
Effect of eccentricity at 1 mm		d _E	%					
Creep over 30 min		d _{crF+E}	%					
Input resistance		R _e	Ω					
Output resistance		R _a	Ω					
Isolation resistance		R _{is}	GΩ					
Reference excitation voltage		t _{ref}	V					
Operating range of the excitation voltage		B _{U,G,T}	V					
Nominal temperature range		B _{t, nom}	°C [°F]					
Operating temperature range		B _{t, G}	°C [°F]					
Storage temperature range		B _{t, S}	°C [°F]					
Reference temperature		t _{ref}	°C [°F]					
Maximum operating force		(F _G)	%					
Limit force		(F _L)	%					
Breaking force		(F _B)	%					
Limit torque		(M _d)	Nm					
Static lateral limit force [*]		(F _Q)	%					
Nominal displacement		S _{nom}	mm					
Fundamental resonance frequency		f _G	kHz					
Relative permissible vibrational stress		F _{rb}	%					
Weight			kg					
Degree of protection to DIN EN 60529			IP65					
Cable length, 6-wire connection			m					

^{*)} by reference to a force introduction point on the force-introduction surface

Accessories(option):

<p>Knuckle eye U1/200 kg/ZGW:</p> <p>Dimensions (in mm)</p>		<p>Weight: 50 g</p> <p>Material: tempering steel, galvanised; rolled steel and PTFE/bronze fabric foil</p>
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Modifications reserved.
All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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