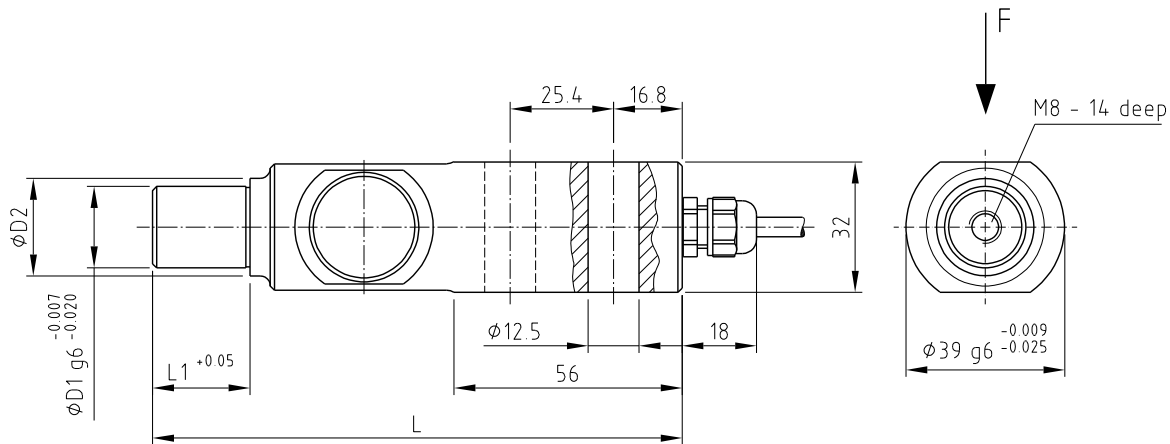


SK 224 FM

Radial force measuring axle

Honigmann

Scale drawing



67224007

All dimensions in mm

Rated measuring ranges

Nominal force [kN]						Bearing journal Ø [mm]		
5**	7,5	10	15***			20	25 *	

The measuring range of the sensor begins at force's zero point.

* Preferred construction size

** Special type LR (Low Range)

*** Special type HR (High Range)

Dimensions and weights

Bearing journal Ø [mm]	Dimensions [mm]				Weight
D1	L1	D2	L		[g]
20	23,9	24	130		800
25	* 28,9	28	135		850

* Preferred construction size

Order code

SK 224 FM - 10 - 20 - 3 - O					
Sensor type					
Nominal force [kN]					
Bearing journal Ø [mm]					
Cable length [m]	Standard: 3 Option: required length				
Cable connection	Standard: O (open ends) Option: S (connector)				

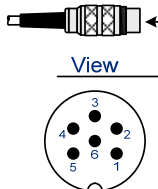
Scope of supply

Sensor with connection cable

Technical data

Rated measuring ranges (F_N)	kN	0 to 5 / 0 to 7,5 / 0 to 10 / 0 to 15
Rated output	mV/V	1 to 2
Rated output tolerance	%	$< \pm 0,1$
Accuracy class		0,3
Excitation voltage max.	V	12
Reference excitation voltage	V	10
Input resistance	Ω	1000 ± 4
Output resistance	Ω	1000 ± 2
Isolation resistance	GΩ	> 5
Rated temperature range	$^{\circ}\text{C}$	-10 to 50, Option: -10 to 70
Operational temperature range	$^{\circ}\text{C}$	-10 to 70
Storage temperature range	$^{\circ}\text{C}$	-30 to 80
Reference temperature	$^{\circ}\text{C}$	23
Temperature influence per 10 K		
- on the zero point (TK0)	% F_N	$< \pm 0,1$
- on the calibration (TKC)	% F_N	$< \pm 0,15$
Creep after 30 minutes	% F_N	$< \pm 0,05$
Max. load	% F_N	approx. 150
Ultimate side load	% F_N	100
Deflection at nominal force	mm	$0,07 \pm 20 \%$
Typ. natural frequency of the sensor	kHz	> 2 (depending on the nominal force)
Connection cable		3m long, flexible, shielded 4 x 0,25mm ² , total- $\varnothing$ 5,5 mm
Sensor housing		stainless steel
Protection class		IP 67

Connections

Standard: Connection type „O“		Option: Connection type „S“																									
	<table><tr><td>+ U_{Br}</td><td rowspan="2">Excitation</td></tr><tr><td>- U_{Br}</td></tr><tr><td>+ U_{Sig}</td><td rowspan="2">Output</td></tr><tr><td>- U_{Sig}</td></tr><tr><td>Shield (not connected to housing)</td><td></td></tr></table>	+ U _{Br}	Excitation	- U _{Br}	+ U _{Sig}	Output	- U _{Sig}	Shield (not connected to housing)			<table><tr><td>1</td><td>+ U_{Br}</td><td rowspan="2">Excitation</td></tr><tr><td>2</td><td>- U_{Br}</td></tr><tr><td>3</td><td>Shield (not connected to housing)</td><td></td></tr><tr><td>4</td><td>+ U_{Sig}</td><td rowspan="2">Output</td></tr><tr><td>5</td><td>- U_{Sig}</td></tr><tr><td>6</td><td>Reserved</td><td></td></tr></table>	1	+ U _{Br}	Excitation	2	- U _{Br}	3	Shield (not connected to housing)		4	+ U _{Sig}	Output	5	- U _{Sig}	6	Reserved	
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6	Reserved																										

67164003

67164003

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