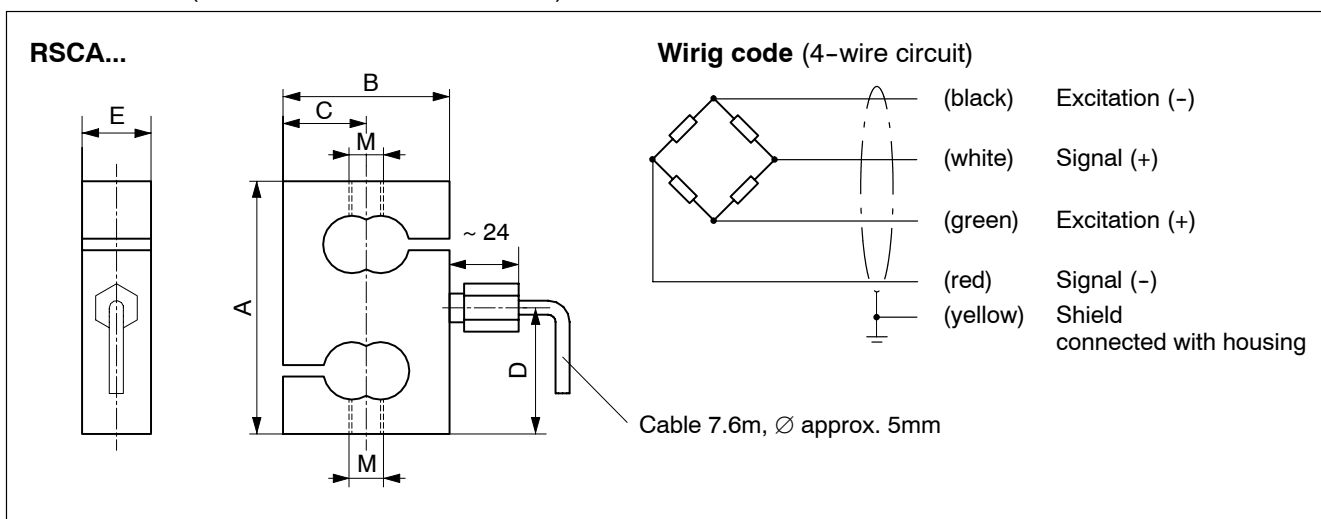




Special features

- Load cell with strain gauge measuring system
- Stainless steel
- Legal for trade verification up to 3000d (OIML R60)
- Meets EMC / ESD requirements according to EN 45 501
- **Available Option:**
Explosion proof version
Ex ib IIC T4

Dimensions (in mm; 1mm = 0.03739 inches)



E_{max} RSCA...	A	B	C	D	E	M
50kg; 100kg	62	50.8	25.4	31	15	M8x1.25
200kg; 500kg; 1t	87.3	57.2	28.6	43.7	24	M12x1.75
2t	100	69.8	34.9	50	30.2	M24x2
5t	100	76.2	38.1	50	36.6	M24x2

Technical Data

Type		RSCA C1						RSCA C3				
Accuracy class accord. to OIML R60 Max. numbers of load cell verification intervals (n_{LC})		D1 1000						C3 3000				
Maximum capacity (E_{max})		50kg	100kg	200kg	500kg	1t	2t	5t	500kg	1t	2t	5t
Min. load cell verification interval (v_{min})	% of E_{max}	0.0286						0.0120				
Sensitivity (C_n)	mV/V	2						2				
Sensitivity tolerance	%	$\leq \pm 0.2500$						$\leq \pm 0.2500$				
Temperature effect on sensitivity (TK_C) ¹⁾	% of C_n	$\leq \pm 0.0230$ ¹⁾						$\leq \pm 0.0140$ ¹⁾				
Temperature effect on zero signal (TK_0)	/ 10K	$\leq \pm 0.0400$						$\leq \pm 0.0170$				
Hysteresis error (d_{hy}) ¹⁾	% of C_n	$\leq \pm 0.0500$ ¹⁾						$\leq \pm 0.0170$ ¹⁾				
Non-Linearity (d_{lin}) ¹⁾	% of C_n	$\leq \pm 0.1000$ ¹⁾						$\leq \pm 0.0180$ ¹⁾				
Creep (d_{cr}), 30 min.		$\leq \pm 0.0490$						$\leq \pm 0.0250$				
Input resistance (R_{LC}) (nominal)	Ω	350						350				
Output resistance (R_0)		350 ± 1.5						350 ± 1.5				
Reference excitation voltage (U_{ref})	V	5						5				
Nominal range of excitation voltage (B_U)		0.5 ... 15						0.5 ... 15				
Insulation resistance (R_{is})	G Ω	> 5						> 5				
Nominal range of ambient temperature (B_T)	$^{\circ}C$ [$^{\circ}F$]	-10 ... +40 [+14 ... +104]						-10 ... +40 [+14 ... +104]				
Service temperature range (B_{tu})		-30 ... +70 [-22 ... +158]						-30 ... +70 [-22 ... +158]				
Storage temperature range (B_{tl})		-50 ... +85 [-58 ... +185]						-50 ... +85 [-58 ... +185]				
Limit load (E_L)		150						150				
Breaking load (E_d)	% of E_{max}	250						250				
Permissible dynamic load (F_{srel}) (vibration amplitude according to DIN 50100)		70						70				
Deflection at E_{max} (s_{nom}), approx.	mm	0.15			0.25	0.38	0.46	0.15	0.25	0.38	0.46	
Weight (G) with cable, approx.	kg	0.4		0.77		1.6	1.8	0.77		1.6	1.8	
Protection class according to EN60529 (IEC529)		IP65 (tightened test conditions 1m water column / 30 min.)										
Material: Meas. body / Application sealing Cable fitting / Cable sheath		stainless steel / Polyurethane stainless steel, gasket from Perbunan / Polyurethane										

¹⁾ The data for Non-Linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values. The sum of these data meets the requirements according to OIML R60.

Dimensions and Accessories (in mm; 1mm = 0.03739 inches)

RSCA... with knuckle eyes							
E_{max} RSCA...	Knuckle eyes	A	B	$\varnothing C$	$\varnothing DH7$	E	F
50kg + 100kg	U1R/200kg/ZGW (2x)	133 ... 154	109 ... 130	24	8	12	9
200kg; 500kg; 1t	U2A/1t/ZGUW (2x)	190 ... 203	158 ... 171	32	12	16	12
2t	U2A/5t/ZGUW (2x)	291 ... 320	231 ... 260	60	25	31	22
5t	U2A/5t/ZGUW (2x)	301 ... 320	241 ... 260	60	25	31	22



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