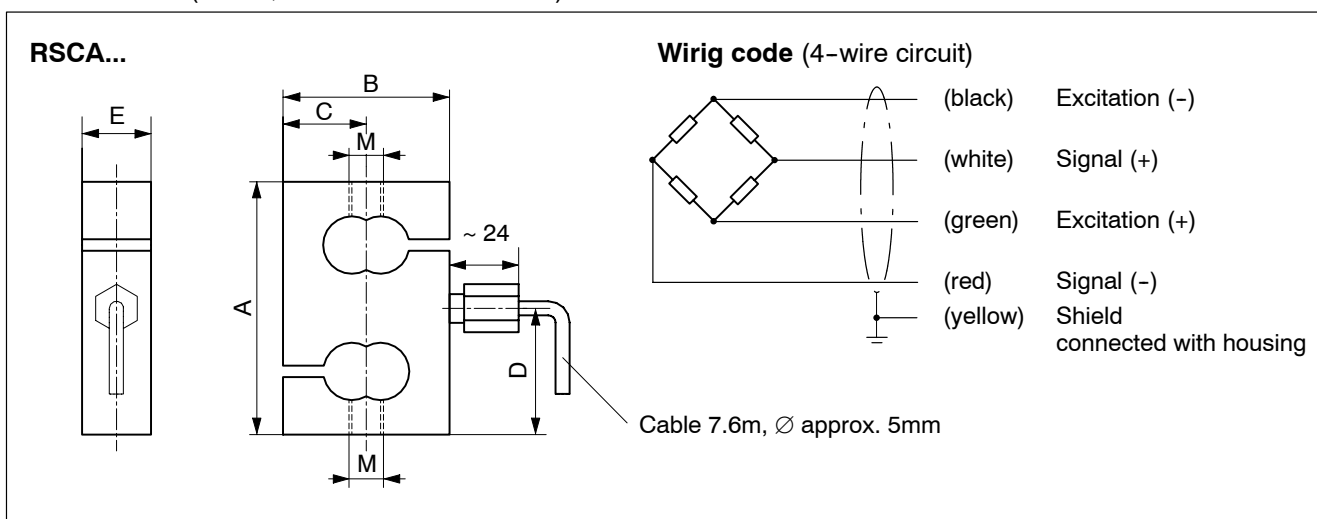


### Special features

- 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  
EEx ib IIC T4

### Dimensions (in mm; 1mm = 0.03937 inches)



E <sub>max</sub> 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	%	±0.2500						±0.2500				
Temperature effect on <b>sensitivity</b> ( $TK_C$ ) <sup>1)</sup>	% of $C_n$	±0.0230 <sup>1)</sup>						±0.0140 <sup>1)</sup>				
Temperature effect on <b>zero signal</b> ( $TK_0$ )	/ 10K	±0.0400						±0.0170				
Hysteresis error ( $d_{hy}$ ) <sup>1)</sup>	% of $C_n$	±0.0500 <sup>1)</sup>						±0.0170 <sup>1)</sup>				
Non-Linearity ( $d_{lin}$ ) <sup>1)</sup>		±0.1000 <sup>1)</sup>						±0.0180 <sup>1)</sup>				
Creep ( $d_{cr}$ ), 30 min.		±0.0490						±0.0250				
Input resistance ( $R_{LC}$ ) (nominal)	$\Omega$	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 ( $R_{is}$ )		> 5						> 5				
Nominal range of ambient temperature ( $B_T$ )	°C [°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 ( $E_L$ )	% of $E_{max}$	150						150				
Breaking load ( $E_d$ )		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										

<sup>1)</sup> 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 = 0.03937 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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