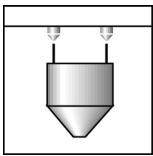


# RSCC

## Load cells

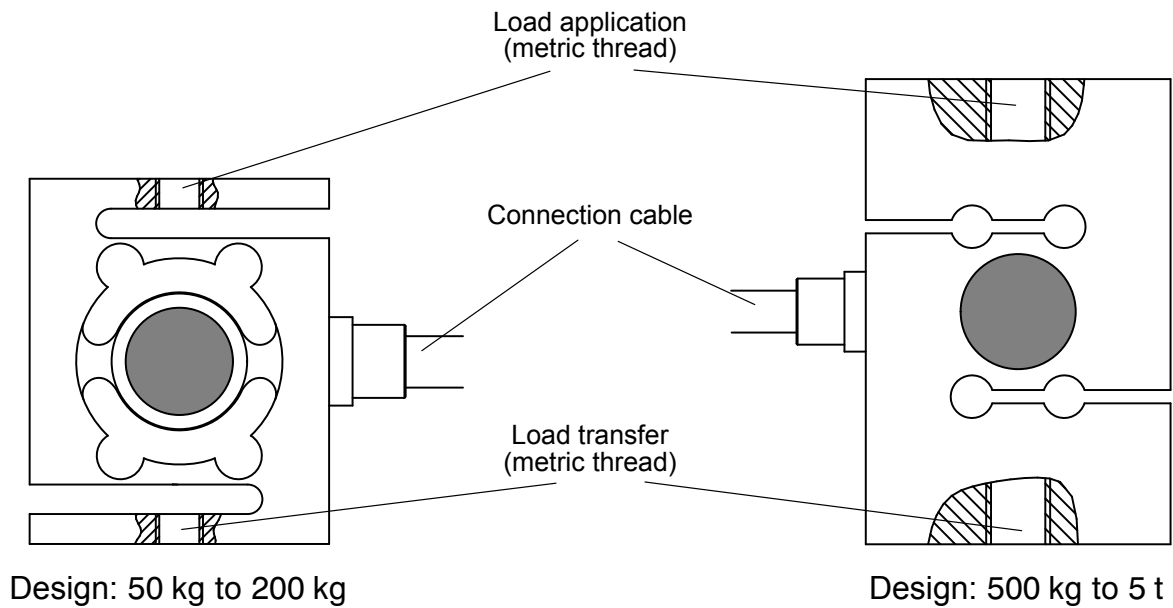


### Special features

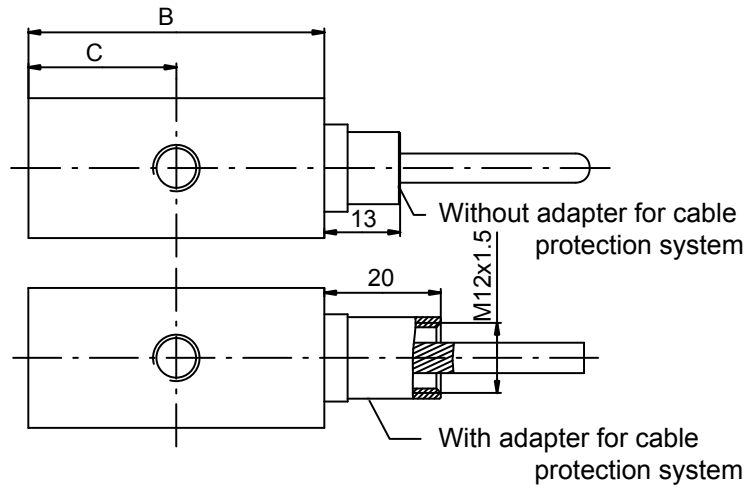
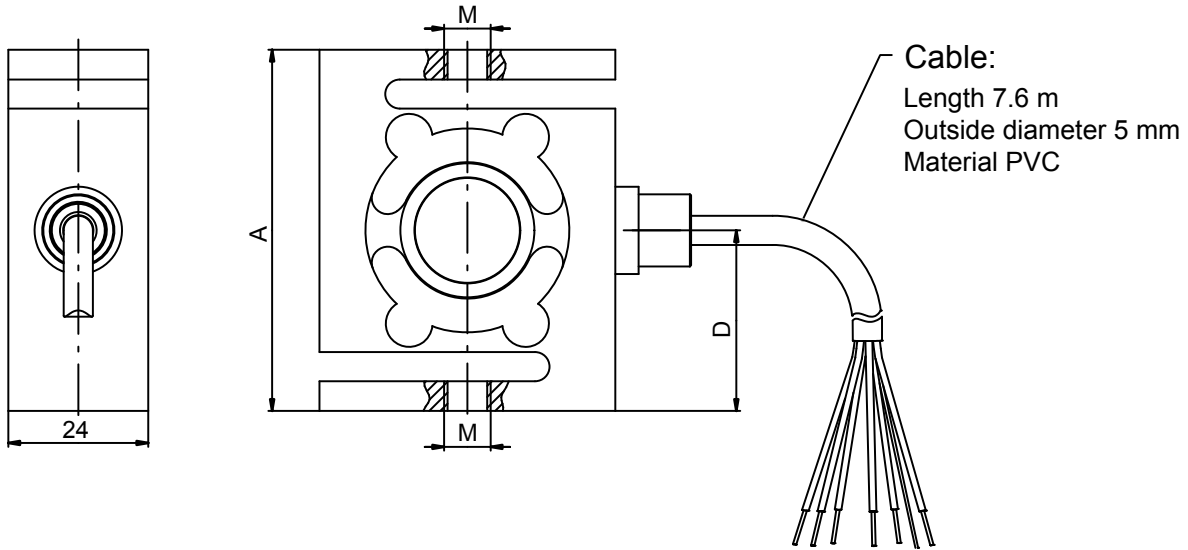
- Load cell with SG measurement system
- Maximum capacities: 50 kg to 5 t
- Hermetically sealed (IP68)
- Rust-resistant materials
- Legal-for-trade to 3000 divisions, test report per OIML-R60 for class III scales
- Meets EMC requirements as per EN 45 501
- Six-wire circuit
- Ex-protection version per ATEX (optional)



Diagram of RSCC load cell

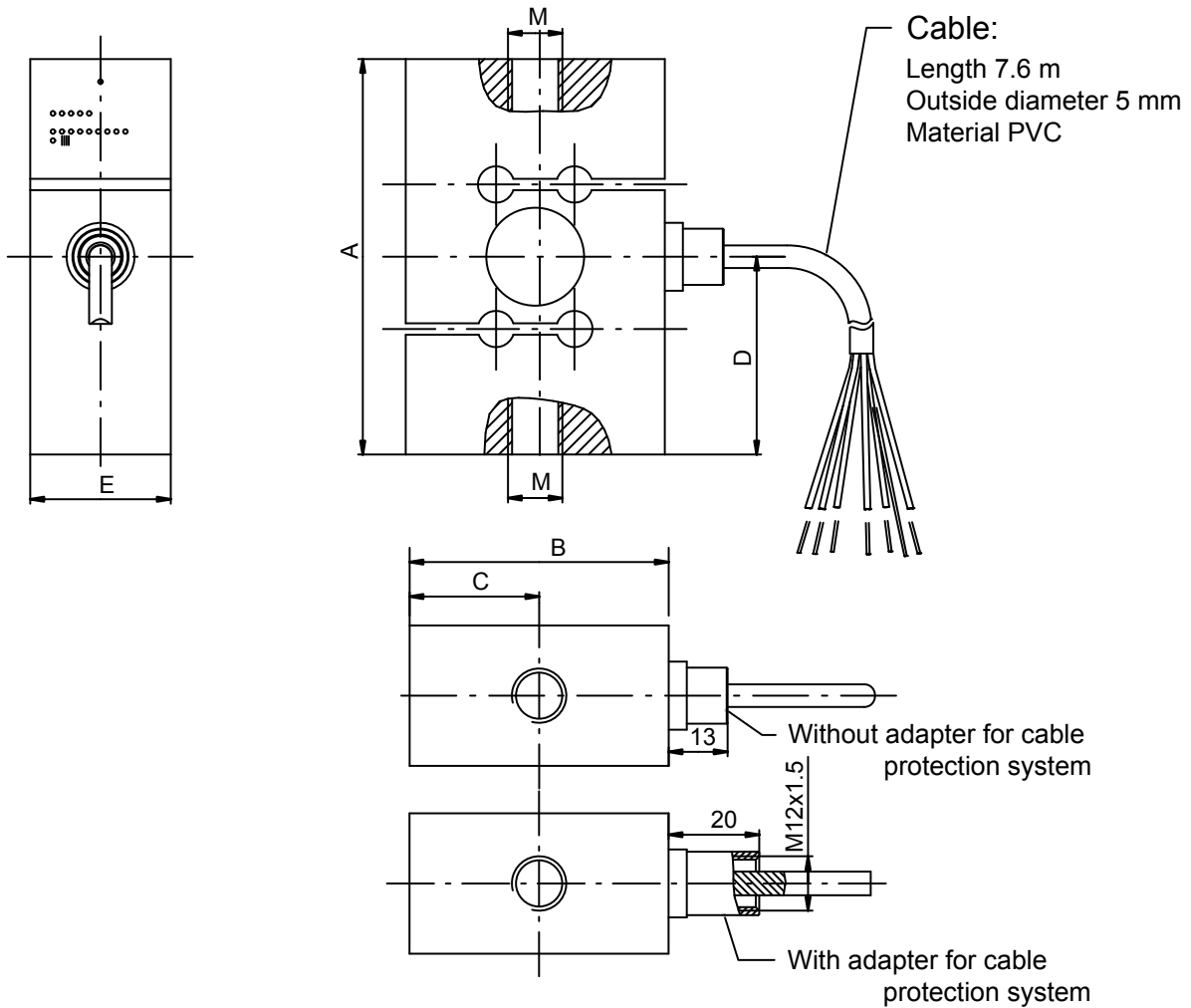


Dimensions (in mm; 1 mm = 0.03937 inches)



Maximum capacity	A	B	C	D	M
50 kg	62	50.8	25.4	31	M8
100 kg	62	50.8	25.4	31	M8
200 kg	87.3	57.2	28.6	43.7	M12

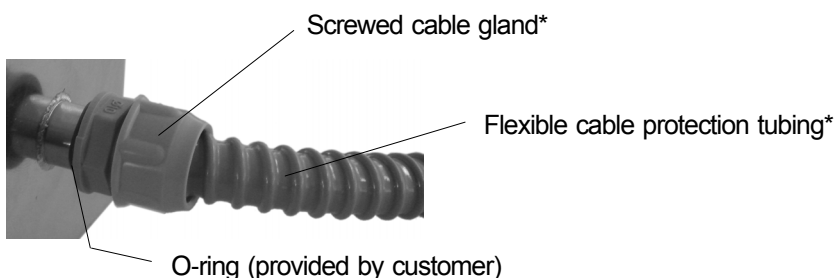
Dimensions (in mm; 1 mm = 0.03937 inches)



Maximum capacity	A	B	C	D	E	M
500 kg	87.3	57.2	28.6	43.7	31	M12
1 t	87.3	57.2	28.6	43.7	31	M12
2 t	100	69.8	34.9	50	31	M24x2
5 t	100	76.2	38.1	50	36.5	M24x2

**Cable protection** (Option 6 required: with adapter for a cable protection system; customer side cable protection version)

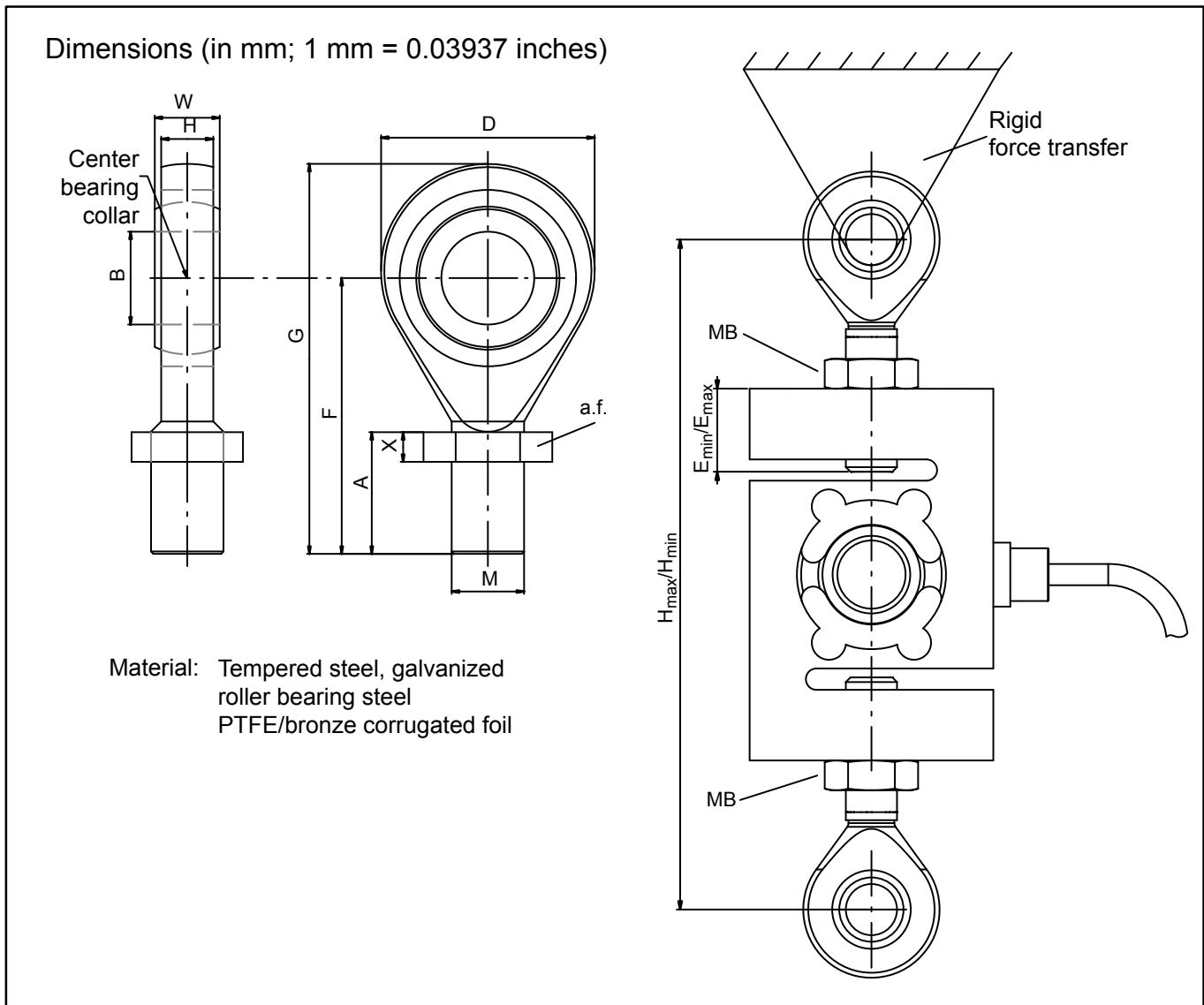
Cable protection system\*, (provided by customer) comprising:



Unscrew the M12 sleeve and replace with an M12 threaded tube coupling

\* Supplier such as Flexicon (<http://www.flexicon.uk.com>)

**Mounting accessories (to be ordered separately):**



Maximum capacity	Weight (kg)	A	ØB H7	D	F	G	H	M	W	X	a.f.
50 kg to 100 kg	0.05	15	8	24	32	44	9	M8	12	6.5	13
200 kg to 1 t	0.1	33.5	12	32	54.5	70.5	12	M12	16	7	19
2 t to 5 t	0.4	57.5	25	60	94.5	124.5	22	M24x2	31	10	36

Maximum capacity	H <sub>min</sub>	H <sub>max</sub>	E <sub>min</sub>	E <sub>max</sub>	M <sub>B</sub> (N·m)
50 kg	110	118	4	8	15
100 kg	110	118	4	8	15
200 kg	156	174	11	20	50
500 kg	158	174	11	19	50
1 t	158	174	11	19	50
2 t	231	263	13	29	200
5 t	241	265	12	24	500

## Specifications

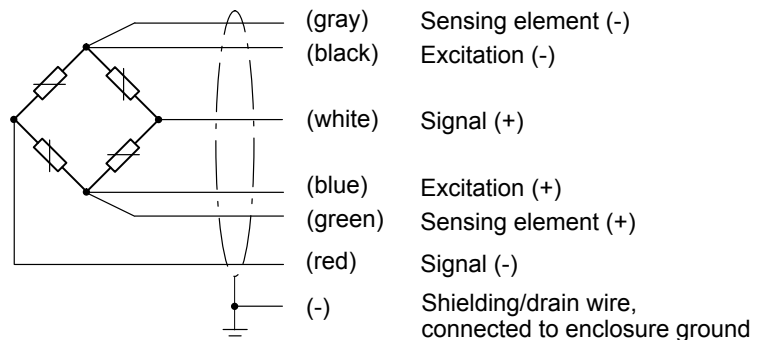
Type		RSCC						
Accuracy class as per OIML R 60		C3						
Number of load cell verification intervals ( $n_{LC}$ )		3000						
Maximum capacity ( $E_{max}$ )		50 kg	100 kg	200 kg	500 kg	1 t	2 t	5 t
Minimum load cell verification interval ( $v_{min}$ )	% of $E_{max}$	0.0120						
Nominal (rated) sensitivity ( $C_N$ )	mV/V	2						
Sensitivity tolerance	%	$\pm 0.25$						
Zero signal	mV/V	$0 \pm 0.1$						
Temperature coefficient of sensitivity ( $TK_C$ ) <sup>1)</sup>	% of $C_N / 10\text{ K}$	$\pm 0.0170$ (20°C to 40°C) $\pm 0.0110$ (-10°C to 20°C)						
Temperature coefficient of zero signal ( $TK_0$ )		$\pm 0.0166$						
Relative reversibility error ( $d_{hy}$ ) <sup>1)</sup>		$\pm 0.0166$						
Non-linearity ( $d_{lin}$ ) <sup>1)</sup>	% of $C_n$	$\pm 0.0166$						
Creep upon loading ( $d_{cr}$ ) over 30 min.		$\pm 0.0166$						
Input resistance ( $R_{LC}$ ) (nominal)	$\Omega$	$389 \pm 15$						
Output resistance ( $R_0$ )		$350 \pm 1.5$						
Insulation resistance ( $R_{iso}$ )	G $\Omega$ /100 V	$> 2$						
Reference excitation voltage ( $U_{ref}$ )	V	5						
Nominal (rated) supply voltage range ( $B_U$ )		0.5 to 12						
Nominal (rated) amb. temperature range ( $B_T$ )		-10 to +40						
Operating temperature range ( $B_{tu}$ )		-30 to +70						
Storage temperature range ( $B_{tl}$ )		-50 to +85						
Reference temperature ( $t_{ref}$ )		22						
Limit load ( $E_L$ )		150						
Breaking load ( $E_d$ )		200		300			200	
Relative perm. vibrational stress ( $F_{srel}$ ) (oscillation width as per DIN 50100)	% of $E_{max}$	70						
Nominal (rated) displacement at maximum capacity ( $s_{nom}$ ), $\pm 0.05\text{ mm}$	mm	0.35	0.4	0.35	0.1	0.2	0.2	0.4
Weight (G), approx.	kg	0.7		1	1.4		1.7	2.2
Degree of protection per EN 60 529 (IEC 529)		IP 68 (test conditions 1 m water column / 100 h)						
Cable length, six-wire configuration		7.6 m as standard						
Material: Measuring body		stainless steel <sup>2)</sup>						
Cable entry		stainless steel / neoprene						
Cable sheath		PVC						

<sup>1)</sup> The values for non-linearity ( $d_{lin}$ ), relative reversibility error ( $d_{hy}$ ) and temperature coefficient of sensitivity ( $TK_C$ ) are recommended values. The sum of these values is within the cumulated error limits according to OIML R60.

<sup>2)</sup> As per EN 10088-1.

### Cable assignment (6-wire configuration)

With this cable assignment, the output voltage at the measuring amplifier is positive in the tensile direction when the transducer is loaded.



## Product numbers (overview)

### RSCC load cells

Maximum capacity	Order no.
50 kg	1-RSCC3/50KG-1
100 kg	1-RSCC3/100KG-1
200 kg	1-RSCC3/200KG-1
500 kg	1-RSCC3/500KG-1
1 t	1-RSCC3/1T-1
2 t	1-RSCC3/2T-1
5 t	1-RSCC3/5T-1

### RSCC load cells, optional versions

Code	Option 1: Design
N	standard



  

Code	Option 2: Accuracy class
C3	C3 (OIML)

Code	Option 3: Maximum capacity
50	50 kg
100	100 kg
200	200 kg
500	500 kg
1000	1 t
2000	2 t
5000	5 t

Code	Option 4: Explosion protection (per ATEX)
N	no ATEX
1	ATEX Zone 1 + 21 and FM 
2	ATEX Zone 2 + 22 (for non-conductive dust) 

Code	Option 5: Cable length
S	standard (7.6 m)
12	12 m
20	20 m

Code	Option 6: Adapter for cable protection system
N	no
A	with adapter for cable protection system

Product no. K-RSCC - **N** - **C3** -  -  -  -  -  -

### Ex-protection versions per ATEX:

- II 2G Ex ia II C T4 and T6 (Zone 1) \*)
- II 2D ExtD A21 IP67 T80°C (Zone 21) \*)
- II 3G Ex nA II T6 (Zone 2)
- II 3D ExtD A22 IP67 T80°C (Zone 22 for non-conductive dust)

\*) with EC type examination certificate

### RSCC accessories

Maximum capacity	ZG... (knuckle eyes top and bottom)
50 kg to 100 kg	1-U1R/200KG/ZGW
200 kg to 1 t	1-U2A/1T/ZGUW
2 t to 5 t	1-U2A/5T/ZGUW

Modifications reserved.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability and do not constitute any liability whatsoever.

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