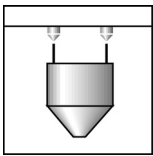


RSCC

Load cells

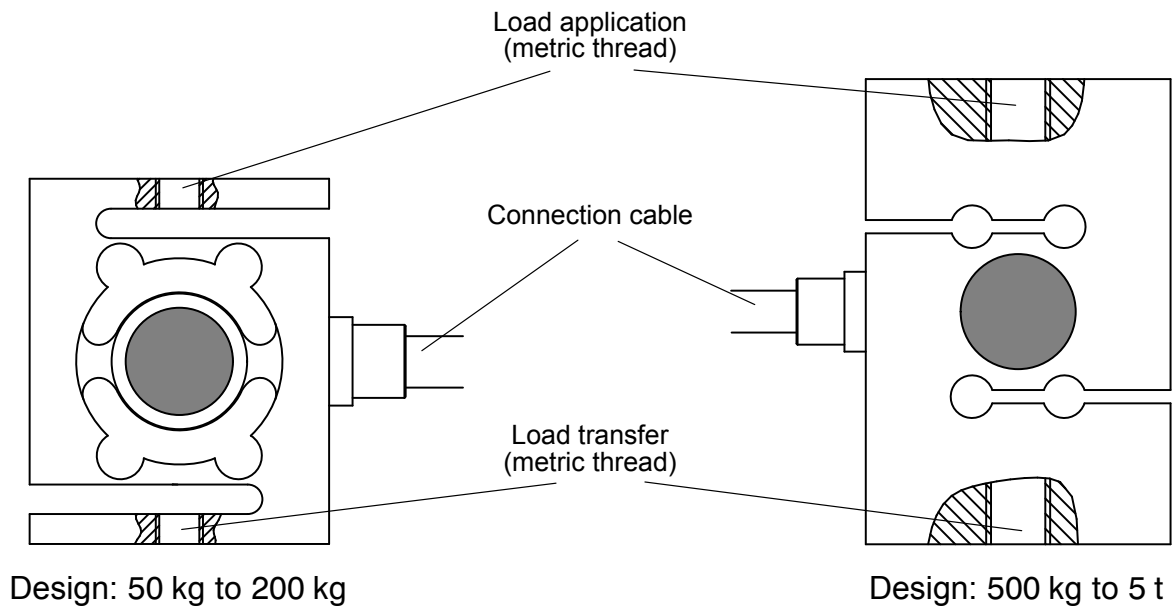


Special features

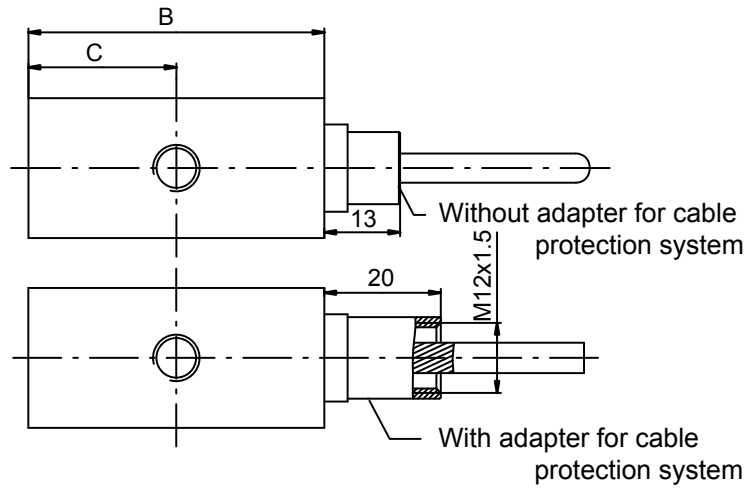
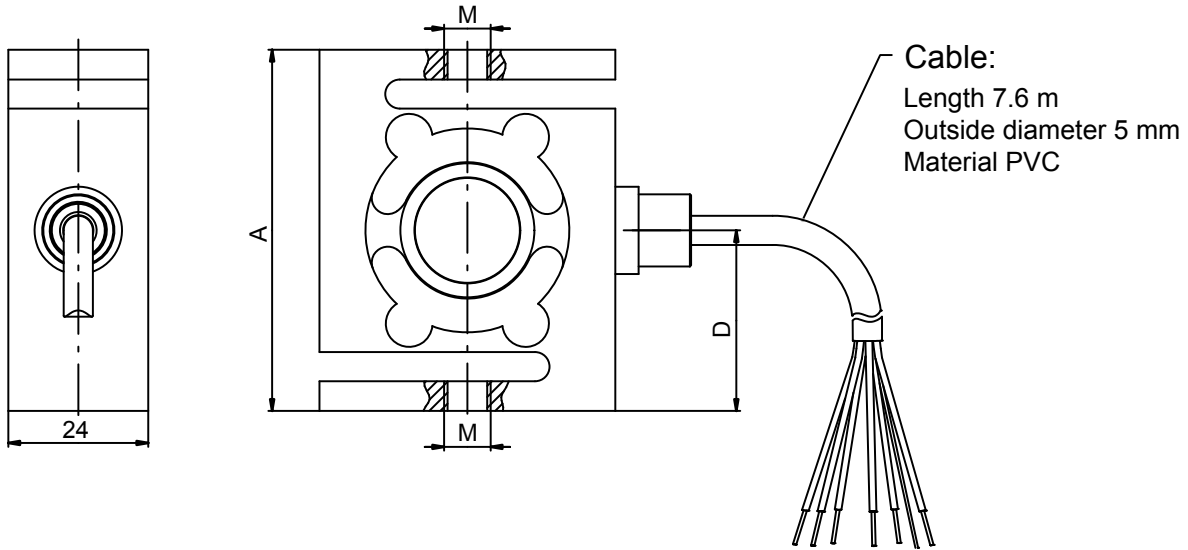
- Load cell with SG measurement system
- Maximum capacities: 50 kg to 5 t
- Hermetically sealed (IP68)
- Rust-resistant materials
- Legal-for-trade to 3000 divisions, test report per OIML-R60 for class III scales
- Meets EMC requirements as per EN 45 501
- Six-wire circuit
- Ex-protection version per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



Diagram of RSCC load cell

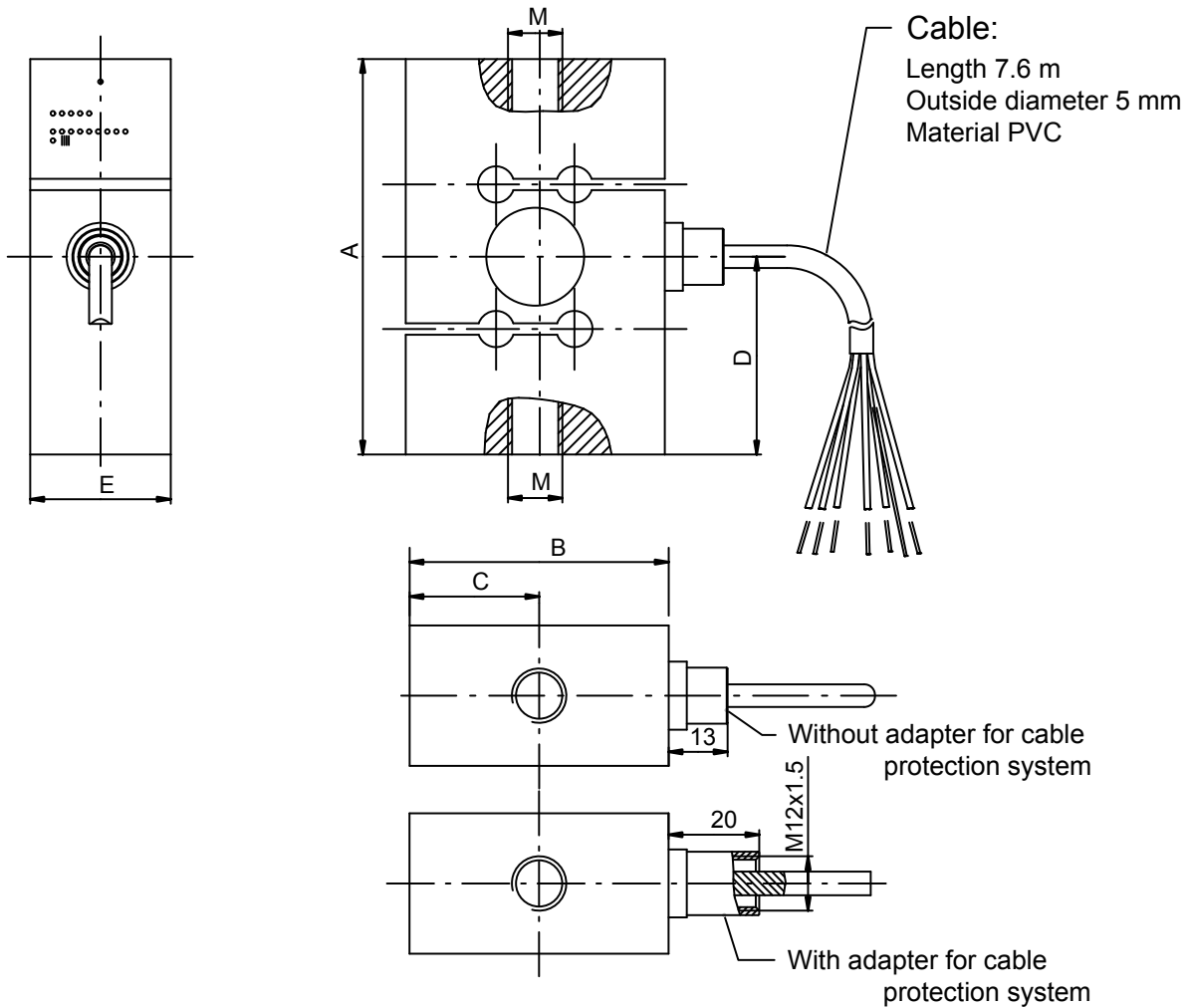


Dimensions (in mm; 1 mm = 0.03937 inches)



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

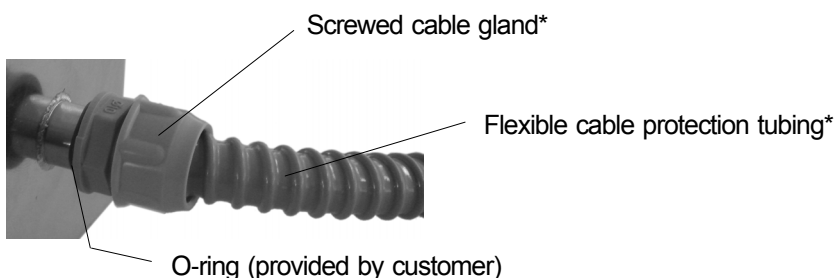
Dimensions (in mm; 1 mm = 0.03937 inches)



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)

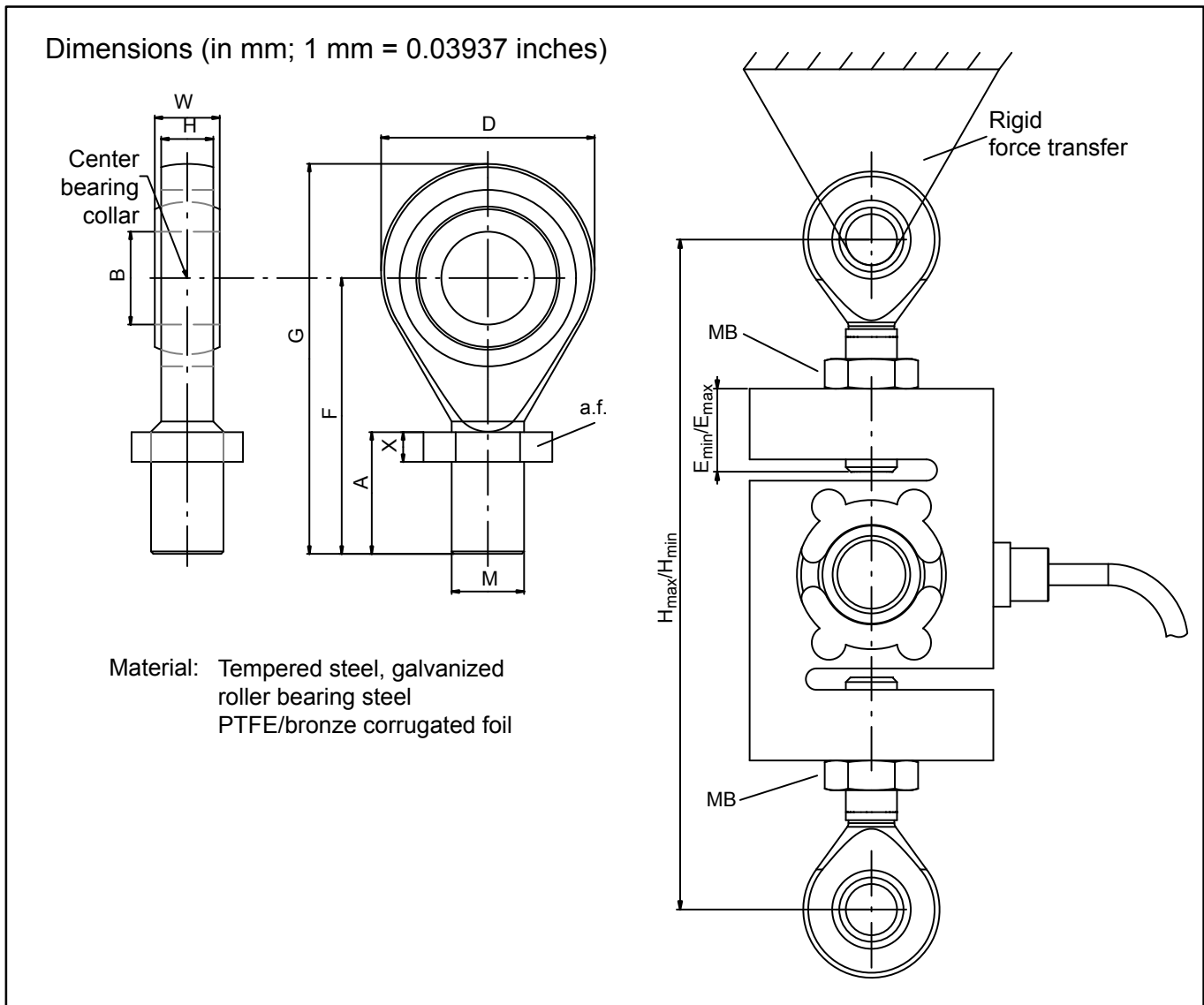
Cable protection system*, (provided by customer) comprising:



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 _{min}	H _{max}	E _{min}	E _{max}	M _B (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

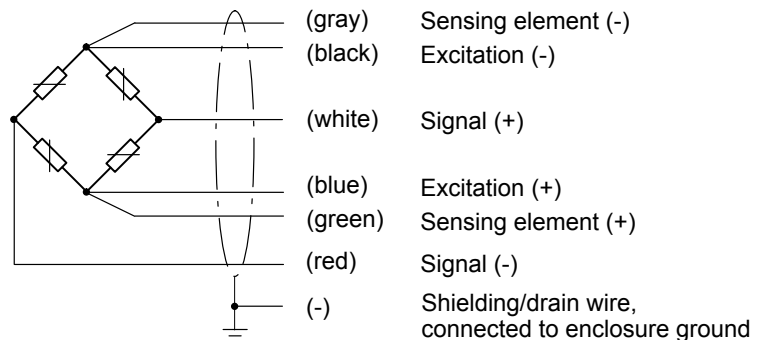
Type		RSCC						
Accuracy class as per OIML R 60		C3						
Number of load cell verification intervals (n_{LC})		3000						
Maximum capacity (E_{max})		50 kg	100 kg	200 kg	500 kg	1 t	2 t	5 t
Minimum load cell verification interval (v_{min})	% of E_{max}	0.0120						
Nominal (rated) sensitivity (C_N)	mV/V	2						
Sensitivity tolerance	%	± 0.25						
Zero signal	mV/V	0 ± 0.1						
Temperature coefficient of sensitivity (TK_C) ¹⁾	% of $C_N / 10\text{ K}$	± 0.0170 (20°C to 40°C) ± 0.0110 (-10°C to 20°C)						
Temperature coefficient of zero signal (TK_0)		± 0.0166						
Relative reversibility error (d_{hy}) ¹⁾		± 0.0166						
Non-linearity (d_{lin}) ¹⁾	% of C_n	± 0.0166						
Creep upon loading (d_{cr}) over 30 min.		± 0.0166						
Input resistance (R_{LC}) (nominal)	Ω	389 ± 15						
Output resistance (R_0)		350 ± 1.5						
Insulation resistance (R_{iso})	G Ω /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 ²⁾						
Cable entry		stainless steel / neoprene						
Cable sheath		PVC						

¹⁾ 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.

²⁾ 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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