

RSCC

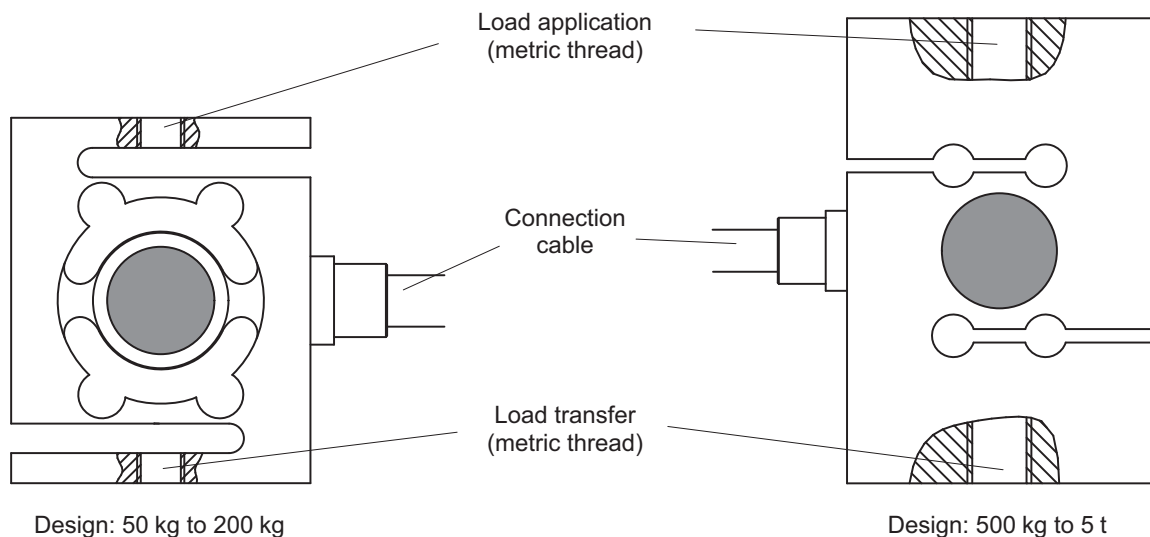
Load cells

Special features

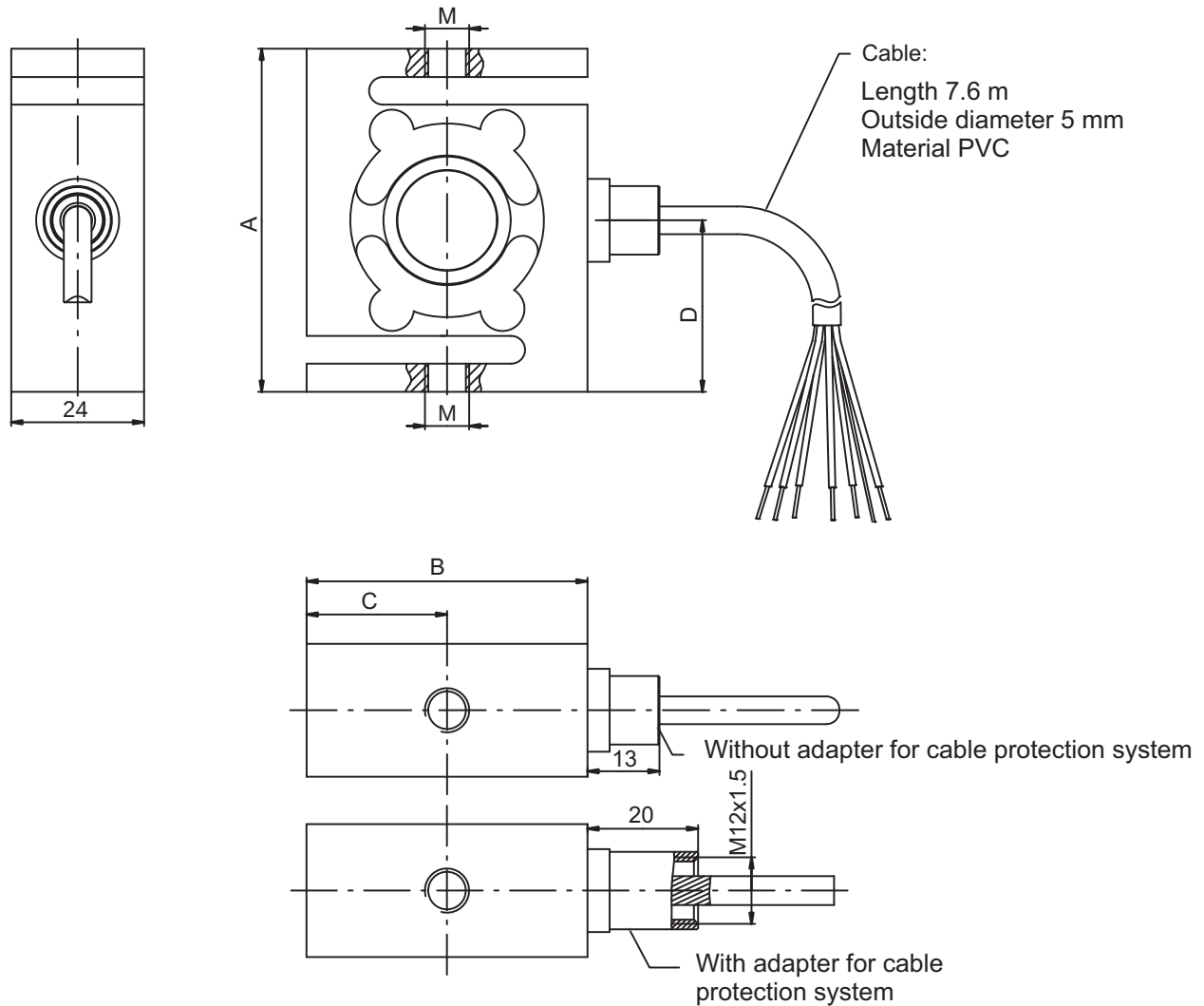
- Load cell with SG measurement system
- Maximum capacities: 50 kg to 5 t
- Hermetically sealed (IP68)
- Rust-resistant materials
- Legal-for-trade to 3000 divisions, test report per OIML-R60 for class III scales
- Meets EMC requirements as per EN 45 501
- Six-wire circuit
- Ex-protection version (optional)



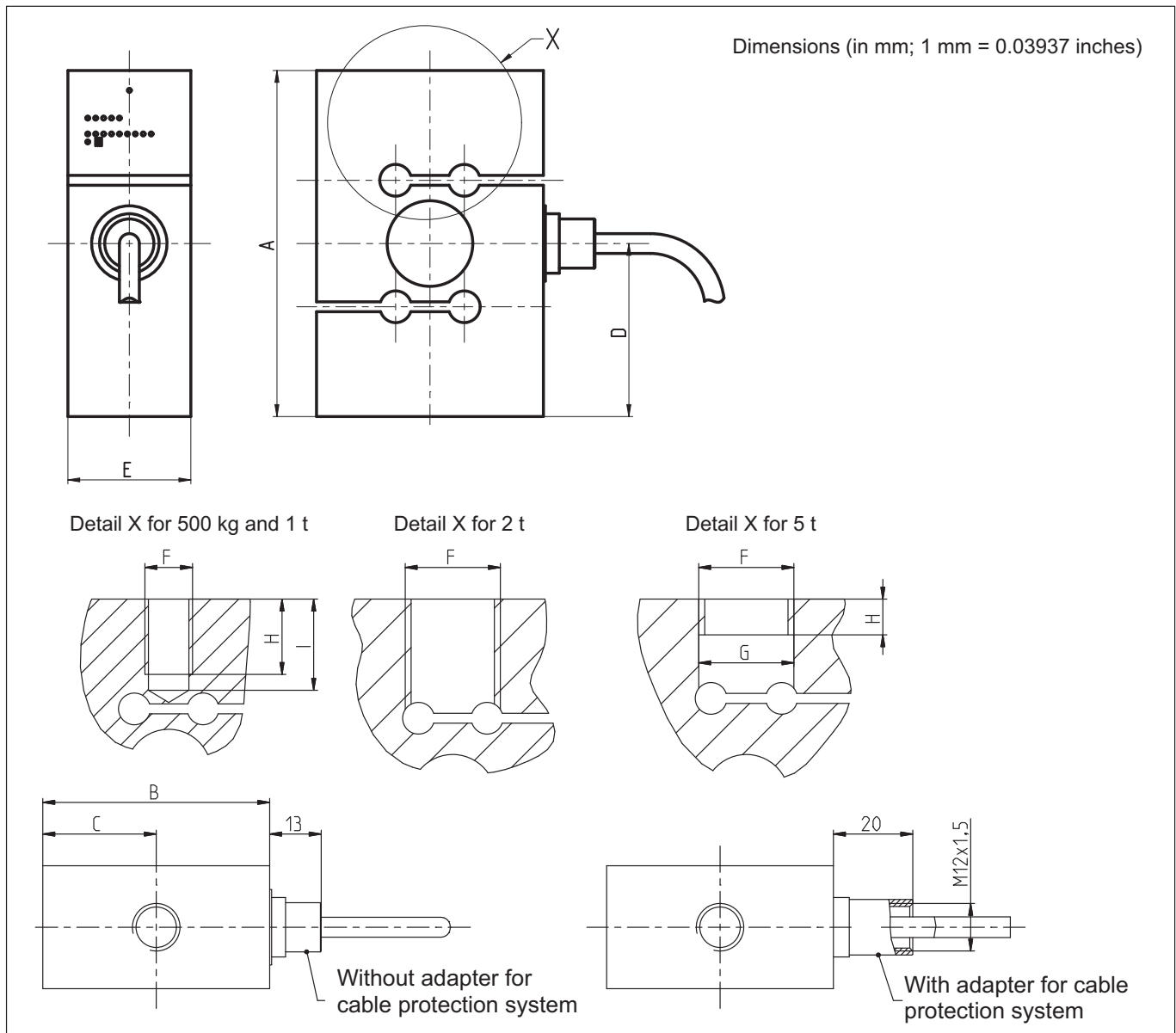
Diagram of RSCC load cell



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

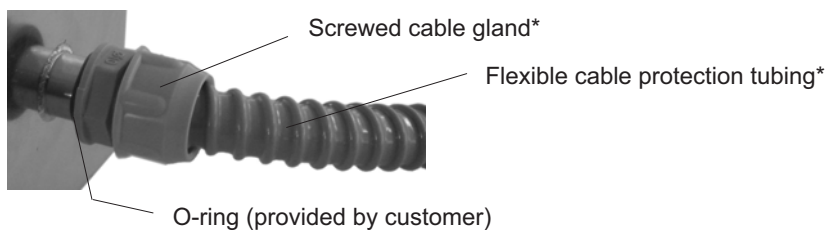


Maximum capacity	A	B	C	D	E	F	G	H	I
500 kg	87.3	57.2	28.6	43.7	31	M12	-	19	23
1 t	87.3	57.3	28.6	43.7	31	M12	-	19	21
2 t	100	69.8	34.9	50	31	M24x2	-	continuous	continuous
5 t	100	76.2	38.1	50	36.5	M24x2	Ø24	9	continuous

Cable protection

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

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

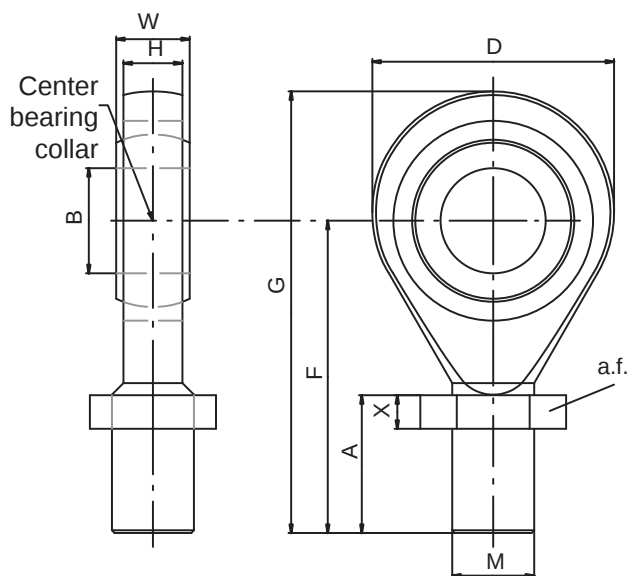


Unscrew the M12 sleeve and replace with an M12 threaded tube coupling

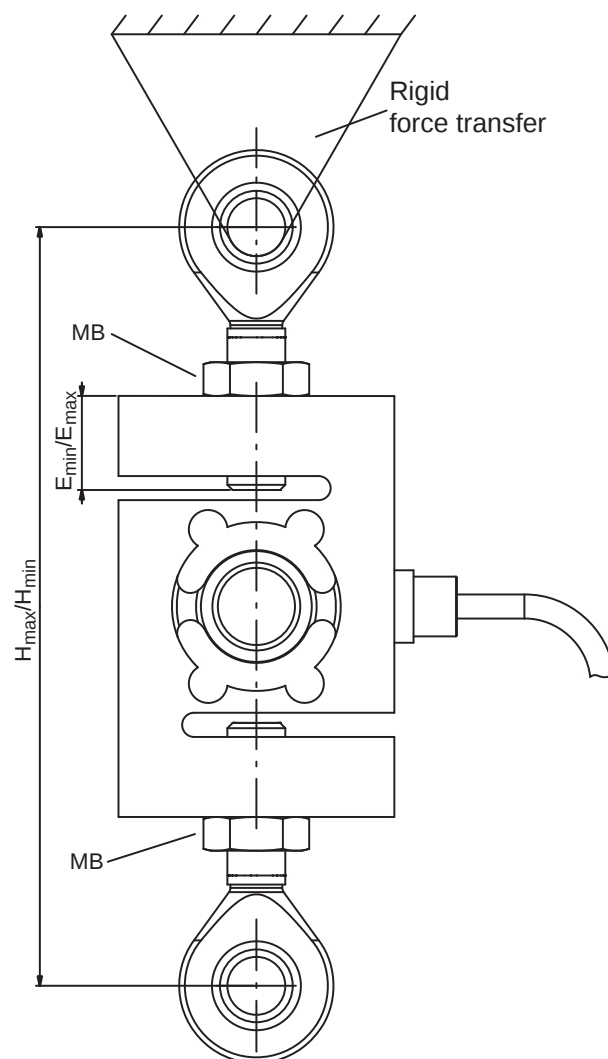
* Supplier such as Flexicon
(<http://www.flexicon.uk.com>)

Mounting accessories (to be ordered separately)

Dimensions (in mm; 1 mm = 0.03937 inches)



Mounting accessories just for static and quasistatic applications



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

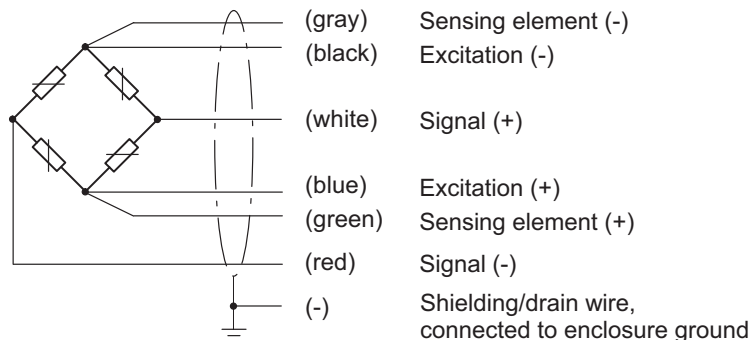
Type		RSCC						
Accuracy class as per OIML R 60		C3						
Number of load cell verification intervals (n _{LC})		3000						
Maximum capacity (E _{max})		50 kg	100 kg	200 kg	500 kg	1 t	2 t	5 t
Minimum load cell verification interval (v _{min})	% of E _{max}	0.0120						
Nominal (rated) sensitivity (C _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 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})	GΩ/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})	°C	-30 to +70						
Storage temperature range (B _{tl})		-50 to +85						
Reference temperature (t _{ref})		22						
Limit load (E _L)	% of E _{max}	150						
Breaking load (E _d)		200			300			200
Relative perm. vibrational stress (F _{srel}) (oscillation width as per DIN 50100)		70						
Nominal (rated) displacement at maximum capacity (s _{nom}), ± 0.05 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 Cable entry Cable sheath		stainless steel 1.4545 ²⁾ stainless steel / neoprene 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.	Maximum capacity	Order no.
50 kg	1-RSCC3/50KG-1	1 t	1-RSCC3/1T-1
100 kg	1-RSCC3/100KG-1	2 t	1-RSCC3/2T-1
200 kg	1-RSCC3/200KG-1	5 t	1-RSCC3/5T-1
500 kg	1-RSCC3/500KG-1		

RSCC load cells, optional versions

Order No.
K-RSCC

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
N	No explosion protection
A1/21	IECEX+ATEX Zone 1/21 + FM, intrinsic safe II 2G Ex ia IIC T6/T4 Gb / II 2D Ex ia IIIC T125°C Db*
A1/22	IECEX+ATEX Zone 2/22, not intrinsic safe II 3G Ex ec IIC T6/T4 Gc / II 3D Ex tc IIIC T125°C Dc*

Code	Option 5: Cable length / cable protection system
S7.6	Standard 7.6 m
12	12 m
20	20 m
A7.6	7.6 m with adapter for cable protection system
A12	12 m with adapter for cable protection system
A20	20 m with adapter for cable protection system

K-RSCC - **N** - **C3** - **50** - **A1/21** - **S7.6**

* Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEX BVS 13.0109 X

RSCC accessories

Accessory	Order no.	Material
Rod end for RSC; 50 kg ... 100kg	1-U1R/200KG/ZGW	Stainless steel
Rod end for RSC; 200 kg ... 1 t	1-U2A/1T/ZGUW	Tempered steel, galvanized; Roller bearing steel; PTFE/bronze corrugated foil
Rod end for RSC; 2 t ... 5 t	1-U2A/5T/ZGUW	

Subject to modifications.
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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