



- High accuracy
- Dual (1 ... 50 kN) or triple (100 ... 500 kN) bridge
- Tension / Compression
- Made of high-grade stainless steel
- Low profile
- Application:
 - Industry
 - Testing machines
 - Laboratory

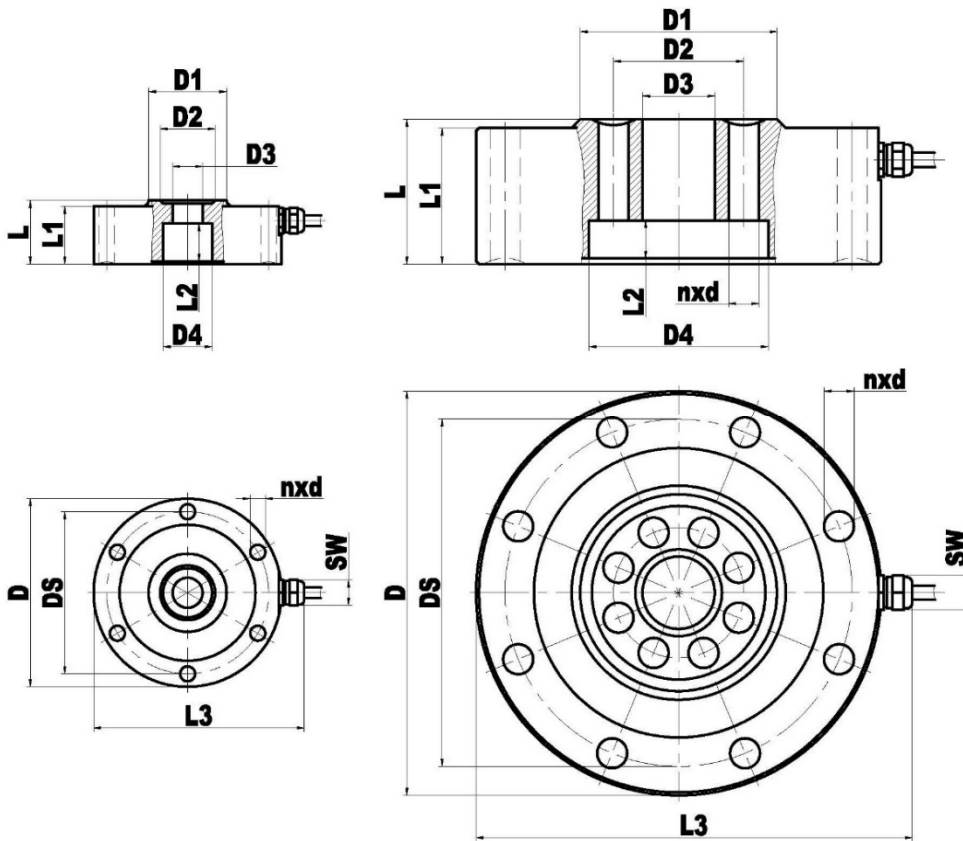
Specifications

Rated capacity (F _n)	1, 2, 5	10, 20, 50	100, 200, 500	kN
Overload				
- Safe				% F _n
- Ultimate				% F _n
- Permanent static load ¹				% F _n
- Dynamic load ¹				% F _n
Nominal sensitivity	1.5 ± 2 %			mV/V
Zero balance	2			% F.S.
Non-linearity	0.2	0.4	0.6	% F.S.
Hysteresis	0.2	0.4	0.6	% F.S.
Creep (30 min)	0.1			% F. S.
Temperature effect				
- On zero	0.05			% F.S./10 °C
- On output	0.05			% F.S./10 °C
Bridge resistance				
- Input	725 ± 20		1075 ± 20	Ω
- Output	700 ± 10		1050 ± 10	Ω
Insulation Impedance	> 5000			MΩ
Excitation ²				
- Recommended	7 ... 10			V
- Maximal	15			V
Temperature range				
- Compensated	0 ... + 50			°C
- Operating	- 10 ... + 70			°C
Protection	IP64			
Cable				
- Type	LiFYDY 4 x 0.05		LiYCY 4 x 0.14	
- Length	2		2	m

Notes:

- 1 Recommended value
2 DC or AC Voltage

Outline dimensions



1, 2, 5, 10, 20, 50 kN

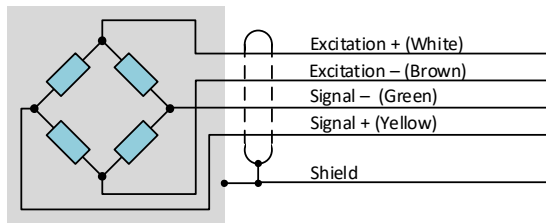
100, 200, 500 kN

F_n^1 (kN)	Dimensions in mm													
	D	DS	D1	D2	D3 / Mx ²	D4	L	L1	L2	L3	SW	d / Mx ²	Mass kg	Deflection @ F_n (μ m)
1	50	42	22	16	8.4 / M8	14	18	17	11	56	Φ 4	4.2 / M4	0.2	40
2	50	42	22	16	8.4 / M8	14	18	17	11	56	Φ 4	4.2 / M4	0.2	40
5	50	42	22	16	8.4 / M8	14	18	17	11	56	Φ 4	4.2 / M4	0.2	40
10	65	56	27	19	10.4 / M10	17	22	20	13	73	11	5.2 / M5	0.4	60
20	80	68	37	24	14.4 / M14	22	30	28	18	88	11	6.3 / M6	0.8	60
50	100	85	50	33	20.4 / M20	31	40	38	25	108	11	8.4 / M8	1.7	60
100	140	120	68	45	25 / M30	62	50	47	13	152	16	10.4 / M10	4.0	120
200	200	170	108	70	35 / M42	92	60	57	18	212	16	14.4 / M14	10.0	120
500	260	220	148	95	52 / M60	126	80	77	25	272	16	20.4 / M20	22.0	120

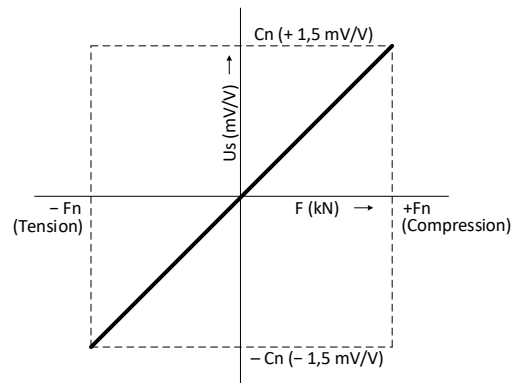
Notes:

1. Rated capacity
2. Threaded version made-to-order

Sensor wiring color code



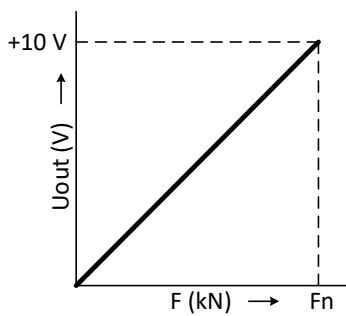
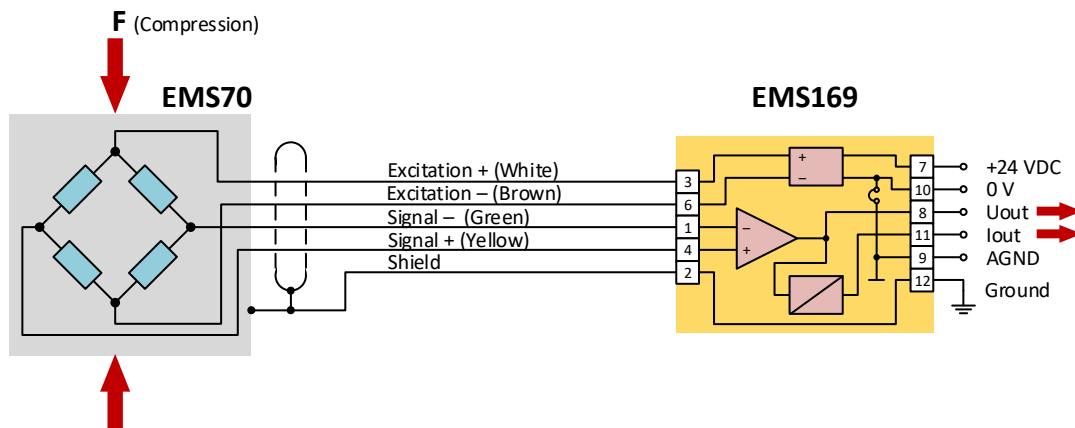
Sensor output characteristic



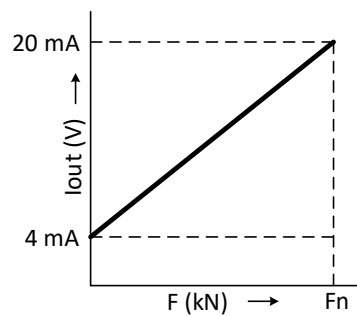
Wiring diagram, example of connection with signal conditioner EMS169

Note: The signal conditioner setting is described in the signal conditioner documentation

1. Load compression, signal conditioner output positive (0...+10 V, 4...20 mA)

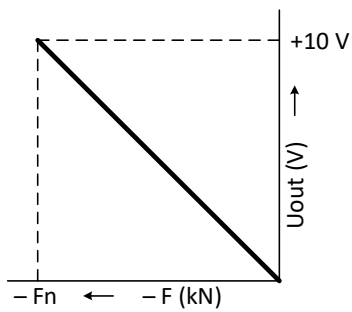
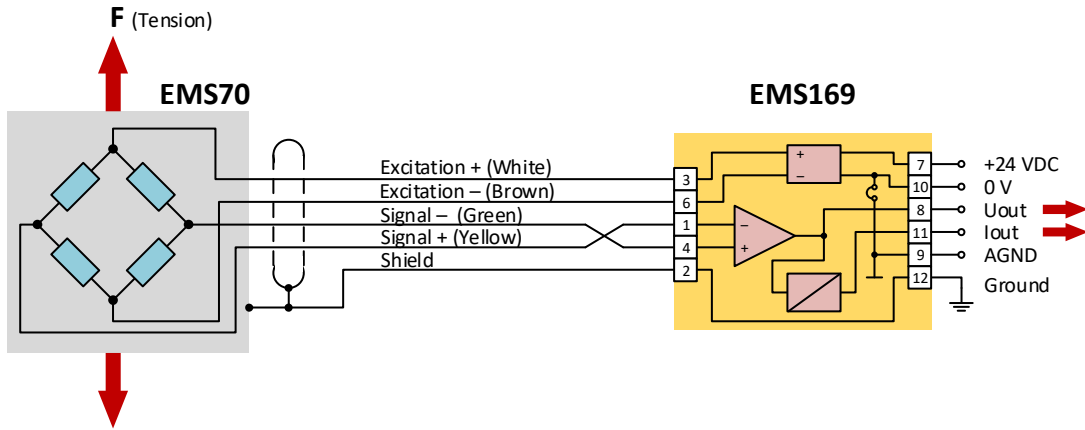


U_{out} vs. F

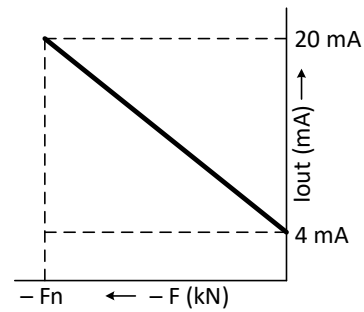


I_{out} vs. F

2. Load tension, signal conditioner output positive (0...+10 V, 4...20 mA)



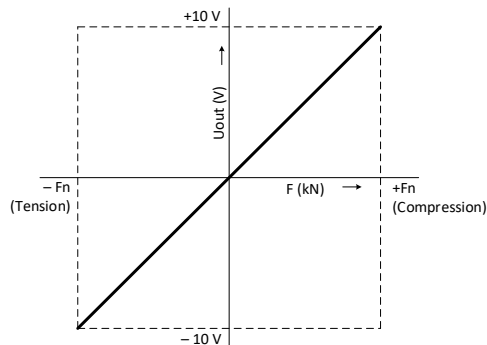
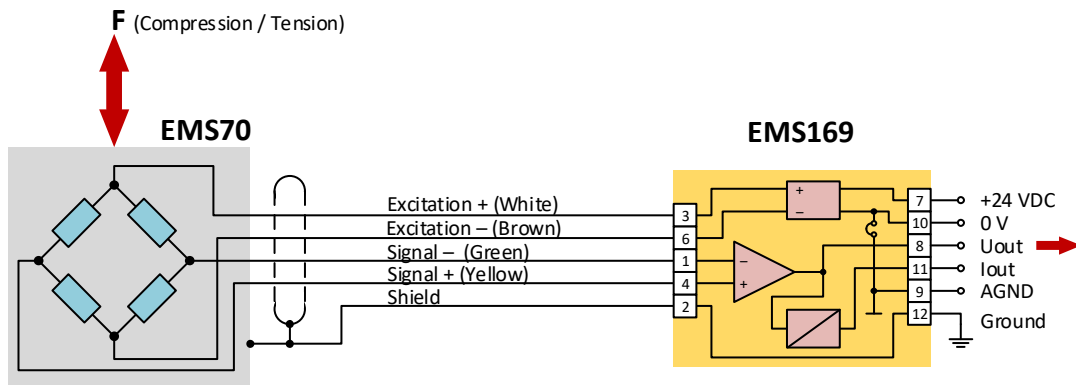
U_{out} vs. F



I_{out} vs. F

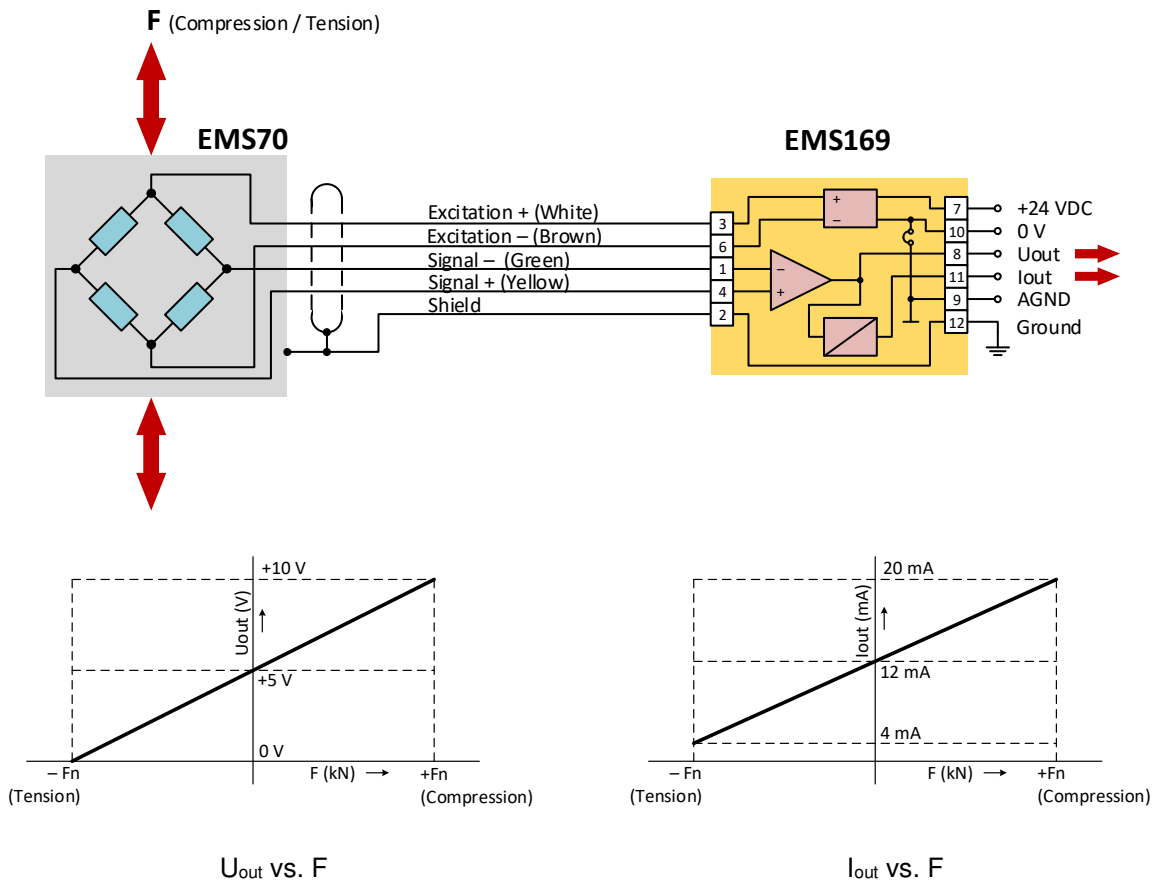
3. Load compression / tension, signal conditioner output bipolar (-10 V ... 0...+10 V)

Notice: current output does not work in the negative range.



U_{out} vs. F

4. Load compression / tension, signal conditioner output positive (0...+10 V, 4...20 mA)



Parallel wiring diagram

