



FORCE TRANSDUCER FOR TENSION/COMPRESSION F2301

Thin-film Technology

F23011330003

Force sensor 0-3kN, tension, 0-10VDC



- Force range from 1-500 kN
- Stainless steel IP67
- Accuracy <0.2%
- Amplified output signal 4-20 mA or 0-10V DC
- ATEX / SIL3 options

Product description

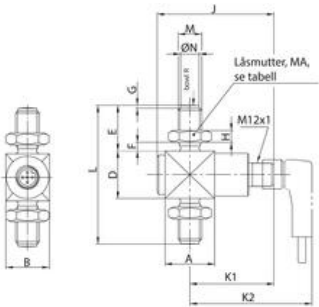
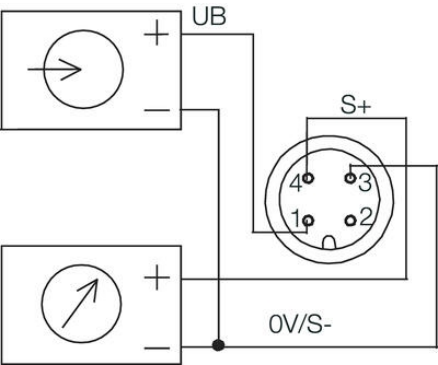
Wika's F2301 is a force transducer in compact design for tension or compression measurement or combination of both. Integrated analog output signal 4-20 mA or 0-10 V with thin-film measuring cell that provides good long-term stability and good repeatability and has protection against shock and vibration. Standard M12 electrical connection for easy assembly. For use in e.g. machines, vehicles, tractors, loaders, lifting devices, cranes and lifts. The force transducer is made of stainless steel, which makes it suitable for mounting in tough and aggressive environments. Available in SIL3 version where high personal safety is a requirement.

Special designs

- Other output signals such as 0.5-4.5 V ratiometric, 0-5 V DC etc
- SIL3 approved
- Alternative connections and power ranges
- EX-rated design

Specifications

Connection Thread	M12x1
Function	Features
IP Class	IP67
Material	Stainless steel 17-7 PH
Power range max	3
Power range min	0
Response Time	1
Signal type	0-10 V
Supply Voltage DC Max	30
Supply Voltage DC Min	14
Temperature range bearing, from	-40
Temperature range bearing, to	85
Temperature range from	-40



kN	A/°C	B	D	E	F	G	H	J	K1	K2	L	M	ØN±0.1	Radius R	MA (Nm)
1	25.2	22	24	23	4.3	1.5	6	59	43	62	70	M12	9.5	60	60
2	25.2	22	24	23	4.3	1.5	6	59	43	62	70	M12	9.5	60	60
3	25.2	22	24	23	4.3	1.5	6	59	43	62	70	M12	9.5	60	60
8	25.2	22	24	23	4.3	1.5	6	59	43	62	70	M12	9.5	60	60
19	25.2	22	31	23	4.3	1.5	6	59	43	62	77	M12	9.5	60	60
29	25.2	26	33	34	3.8	2	10	59	43	62	101	MGOn1.5	17	100	300
39	27.5	27.5	40	34	3.8	2	10	61.5	44	63	108	MGOn1.5	17	120	300