

## FORCE TRANSDUCER FOR TENSION/COMPRESSION F2301

Thin-film Technology

F23011450008

Force sensor 0-50kN, 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

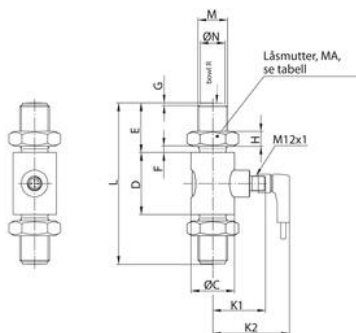
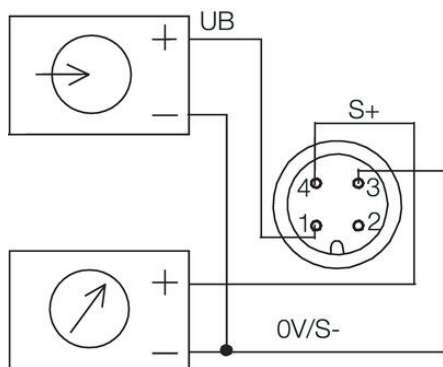
- Other output signals such as 0.5-4.5 V ratiometric, 0-5 V DC etc
- SIL3 approved
- Alternative connections and power ranges
- EX-rated design

### TECHNICAL DATA

Connection	M12x1
Function	Features
IP class	IP67
Material	Stainless steel 17-7 PH
Power range max	50 kN
Power range min	0
Response time	1 ms
Signal type	0-10 V
Storage temperature max	85 °C
Storage temperature min	-40 °C
Supply voltage dc max	30 V DC
Supply voltage dc min	14 V DC
Temperature operational max	80 °C

Temperature operational min

-40 °C



kN	A/BC	B	D	E	F	G	H	J	K1	K2	L	M	DN 6,1	Radio R	MA (Nm)
50	035	50	40	5	2	12	-	43	62	130	M24x2	20	150	500	
100	054	54	68	10	3	19,5	-	44	64	190	M30x3	34	200	2 500	
200	067	67	82	12	3	22,5	-	45	65	231	M45x3	40	250	4 000	
300	073	73	95	14	3	28	-	49	69	269	M56x4	50	300	6 000	
500	094	94	111	17	3	32	-	59	79	320	M64x4	58	400	9 000	