

# SMNC-50 | WELDED STAINLESS



## FEATURES

- ▶ The item SMNC-50 miniature compression force sensor utilizes strain gauge technology and offers high accuracy. It has non-linearity of 0.5%.
- ▶ The force sensors are made of 17-4PH stainless steel and have robust construction.
- ▶ These force sensors are small and easy to installed.
- ▶ Most capacities of these force sensors are available and can be modified or customized to match requirements.

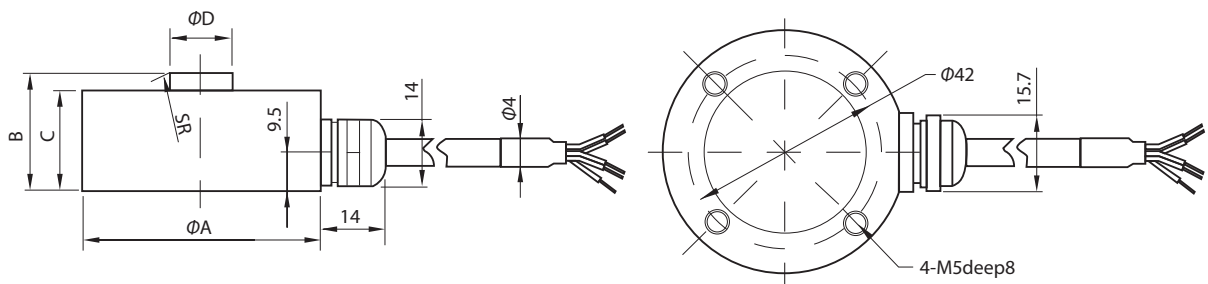
## Applications

▶ SMNC-50 Miniature compression force sensors with high accuracy are mainly used for force measurement, such as pressure measurement for switches, hot pressing machine, pile press machine, and interference force detection in assemble of automobiles, motorcycles, bikes, electrical, etc.

## SPECIFICATION

Capacity	0.5,1,2,3,5,10,20,30,50kN	Output Impedance	700±3Ω
Rated Output	1.5 ±10% mV / V	Insulation (DC 50V)	≥5000MΩ
Zero Balance	±2% F.S.	Recommended Excitation	5 ~ 10 V
Non-Linearity	0.1% F.S.	Maximum Excitation	10 V
Hysteresis	0.1% F.S.	Compensated Temp Range	-10 ~ 60°C
Repeatability	0.1% F.S.	Operating Temp Range	-20 ~ 80°C
Creep (30min)	0.05% F.S.	Safe load limit	120% F.S.
Temp Effect on Output	0.05% F.S. / 10°C	Ultimate Load Limit	150% F.S.
Temp Effect on Zero	0.05% F.S. / 10°C	Cable Size	Ø 4×3m
Input Impedance	750±15Ω	Wire Connection	Ex+: Red EX-: Black Sig+: Green Sig -: White

## DIMENSION



Unit (mm)

Range(kN)	A	B	C	D	SR
0.5,1,2,3,5,10,20	50	25	21	13	85
30,50	51	25	21	16	100