MK button force transducer



product description

The MK is a series of miniature force transducers designed for applications in general test and measurement as well as machine monitoring and control.

The low profile, small diameter design enables the MK to be easily embedded into machinery or test equipment – ideal for packaging machinery, assembly machinery or end-of-line test equipment. Available in a wide range of standard capacities from 100N through to 150kN; the MK is configured for compression force measurement. Full-bridge, bonded foil strain gauge technology provides excellent long-term stability and ensures high performance even in applications requiring in excess of 1 million load cycles. Constructed from stainless steel and protected from moisture with an epoxy bonded cover.

The MK can be supplied with standard cable configurations or with industry standard connectors. As an additional aid to system integrators, the MK can be supplied as a TEDS (Transducer Electronic Data Sheet) enabled smart transducer this provides an on-board memory chip storing manufacturing and calibration data.

Comprehensive range of electronic modules available

applications

General test and measurement as well as machine monitoring and control. Ideal for packaging machinery, assembly machinery or end-of-line test equipment.

key features

Capacity range of 100N to 150kN

Stainless steel construction

Environmental protection to IP64

High accuracy \pm 0.5%

Low profile, small diameter and low weight design

Temperature compensated from -15°C to + 70°C

options

케이블 길이 범위

플라잉 리드 또는 케이블 커넥터

TEDS IEEE 1451.4 메모리 칩

다점 교정 가능









specifications

Capacity	N	100, 200, 500, 1,000, 2,000, 5k, 10k, 15k, 20k, 50k, 100k, 150k
Allowable maximum load	% full scale	150
Allowable maximum load	76 Tuli Scule	150
Non-linearity	% FS Max	0.5
Repeatability	% FS Max	0.1
Total error	% FS Max	0.8
Zero balance	% FS Max	2
Input impedance (range)	Ω	350-450 (for 100-500N) 700-900 (for 1000N-150kN)
Output impedance (nominal ±10%)	Ω	350 (for 100-500N) 700 (for 1000N-150kN)
Zero temp coefficient	% FS / °C	0.01
Span temp coefficient	% FS / °C	0.02
Compensated temp range	°C	-15 to 70
Operating temp range	°C	-20 to 80
Output	mV/V	2
Excitation voltage (VDC OR VAC)	V	5 (recommended), 10 (max)
IP Rating	-	IP64

wiring

The sensor is provided with a 32AWG
4-conductor braided shield

Cable jacket: PVC

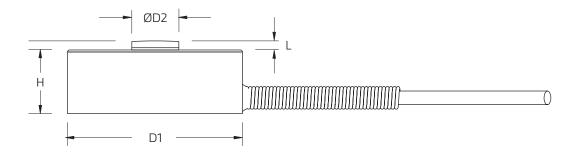
Cable length: 2m

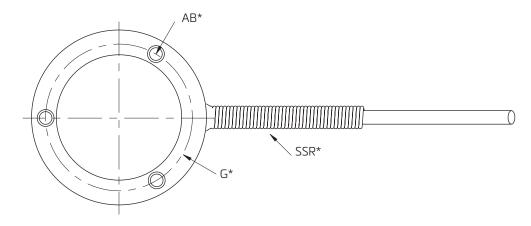
- Excitation (red)

- Excitation (green)

- Signal (white)

product dimensions (mm)





key

AB*- 아래 표에 따라 'A' 나사산과 'B' 깊이가 있는 3개의 장착 구멍 G*- 피치 원 지름

SSR* - 스프링 스트레인 릴리프

Capacity	D1 mm [in]	D2 mm [in]	H mm [in]	L mm [in]	Α	B mm [in]	G mm [in]
100N							
200N	24.9 [0.98]	5.33 [0.21]	6.86 [0.27]	1.27 [0.05]	МЗ	5.59 [0.22]	19.05 [0.750]
500N							
1kN							
2kN							
5kN	31.75 [1.25]	8.13 [0.32]	8.64 [0.34]	1.27 [0.05]	M4	6.35 [0.25]	25.4 [1.000]
10kN							
15kN							
20kN	38.1 [1.50]	10.16 [0.40]	14.0 [0.55]	2.03 [0.08]	M4	6.35 [0.25]	31.75 [1.250]
50kN							
100kN							
150kN	50.3 [1.98]	15.24[0.60]	22.35 [0.88]	3.05 [0.12]	M4	6.35 [0.25]	41.3 [1.625]

Specifications and dimensions are subject to change without notice.