



Short Description



- Aluminium bending miniature sensor
- High accuracy
- Suitable for kitchen scales

Available Models

Capacity	Accuracy	Full Article Description
0.6kg	0.03%	1R1-KL-0.6kg
1kg	0.03%	1R1-KL-1kg
2kg	0.03%	1R1-KL-2kg
3kg	0.03%	1R1-KL-3kg
5kg	0.03%	1R1-KL-5kg
6kg	0.03%	1R1-KL-6kg

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

Technical Specifications 1R1-KL

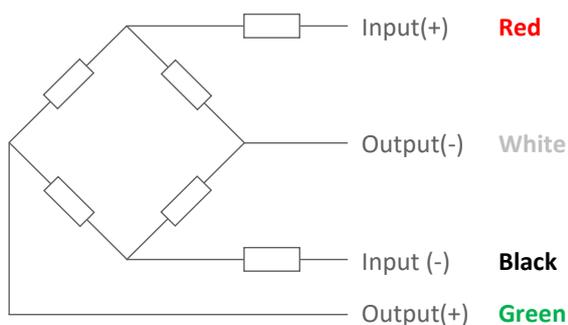
Accuracy Class	%FS	0.03		
Output Sensitivity (= FS)	mV/V	1.0 ± 0.15	1.5 ± 0.15	1.2 ± 0.15
Maximum Capacity (E _{max})	kg	0.6	1	2, 3, 5, 6
Creep Error (5 minutes)	%FS	≤± 0.03		
Non-Linearity	%FS	≤± 0.03		
Repeatability	%FS	≤± 0.03		
Hysteresis	%FS	≤± 0.03		
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 1.0	≤± 1.0	≤± 0.3
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.03		
Zero Output	mV/V	≤± 0.1		
Safe Overload	%FS	150		
Ultimate Overload	%FS	300		
Maximum Deflection	mm	0.15		
Eccentric Loading Error	%FS	± 0.1 @ 150 x 150mm platform		
Excitation, Recommended Voltage	V	5 ~ 9		
Excitation, Maximum Voltage	V	10		
Input Resistance	Ω	1055 ± 10		
Output Resistance	Ω	1000 ± 10		
Insulation Resistance (50V)	MΩ	≥2000		
Operating Temperature	°C	-10 ~ + 40		
Storage Temperature	°C	-20 ~ + 65		
Element Material		Aluminium		
Ingress Protection (acc. to EN 60529)		IP65		
Recommended Torque on Fixation Bolts	Nm	M4: 3	M5: 6	

Wiring

Features:

Cable type: 4 separate conductor cable , conductor AWG 30
 Cable diameter: Ø 0.9mm
 Cable length: 0.25m ± 0.01m
 Cable jacket: PVC

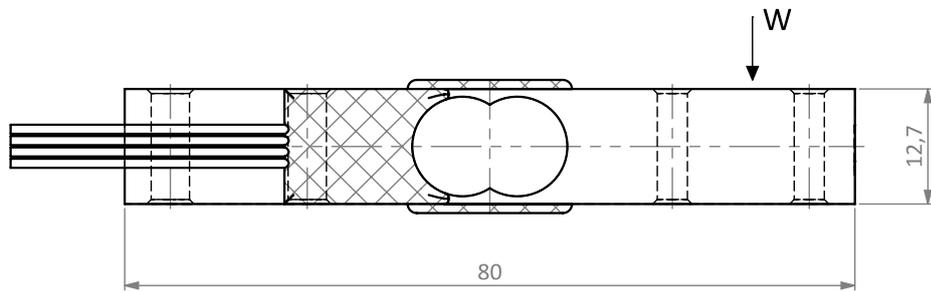
4-Wire Connection Diagram



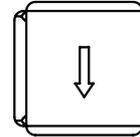
Type 1R1-KL Miniature Sensor

Dimensions in mm

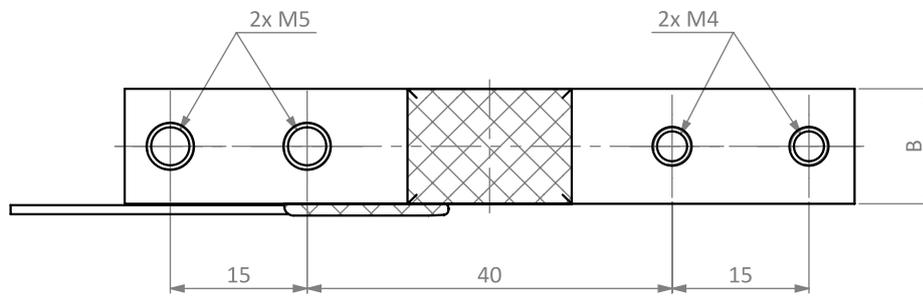
Front View



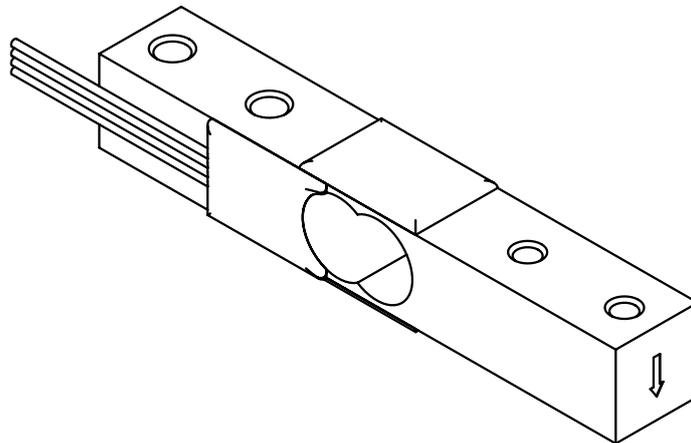
Side View



Top View



Isometric View



Capacity	Dimension	B
0.6kg – 2kg		10
3kg – 6kg		12.7