

# 1040/1041

**TEDEA**   
**HUNTLEIGH**  
EXCELLENCE IN LOAD CELLS



Models 1040 and 1041 are low profile single point load cells designed for direct mounting of low cost weighing platforms.

Their small physical size, combined with high accuracy and low cost, makes these load cells ideally suited for retail, bench and counting scales.

Available in anodised aluminium these high accuracy load cells are approved to NTEP and other stringent approval standards, including OIML R60.

An optional special humidity resistant protective coating assures long term stability over the entire compensated temperature range.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

## TEDEA-HUNTLEIGH models 1040 & 1041 low cost, low capacity single point load cells.

- **Capacities: 5-100kg.**
- **Aluminium construction.**
- **6 Wire (sense circuit).**
- **Single point 400x400 platform.**
- **IP54 protection (IP67 optional).**
- **Approved to NTEP and OIML R60.**

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# 1040/1041 SPECIFICATION

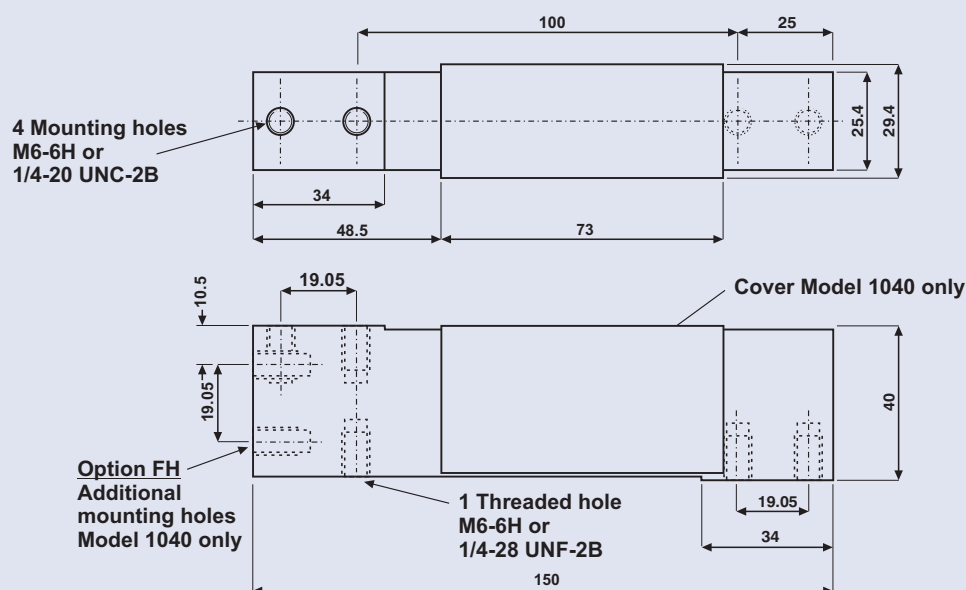
GRADE	E	F	G**	C3***	UNITS
Rated Capacities	5, 7, 10, 15, 20, 30, 50, 75, 100.				kg
Rated Output	2.0 ± 10%				mV/V
Total Error*	0.030	0.020	0.0200	0.0200	±% of Applied Load
Zero Return after 30 mins	0.050	0.025	0.0170	0.0170	±% of Applied Load
Temperature Effect : On Output	0.0030	0.0014	0.0010	0.0010	±% of Applied Load / °C
: On Zero	0.0100	0.0060	0.0040	0.0023	±% of Rated Output / °C
Eccentric Loading	0.0074	0.0074	0.0049	0.0049	±% of Applied Load/cm.
Zero Balance	10.0				±% of Rated Output
Temperature range : Operating	-30 to +70				°C
: Compensated	-10 to +40				°C
Safe Overload	150				% of Rated Capacity
Ultimate Overload	300				% of Rated Capacity
Excitation : Recommended	10				Volts AC or DC
: Maximum	15				Volts AC or DC
Input Impedance	415±15				Ohms
Output Impedance	350±3				Ohms
Insulation Impedance	1040 : >5000 1041 : >2000				MegaOhms
Deflection at Rated Capacity	<0.4				mm
Weight	1040 : 0.35 1041 : 0.30				kg
Construction	1040 : Anodised aluminium 1041 : Aluminium				
Environmental Protection	1040 : IP54 (IP67 Optional) 1041 : IP55				
Cable	1 Metre Std. (0.5m 1041), 6 Wire, PVC, Single Floating Screen				

\* Total Error - According to OIML R60

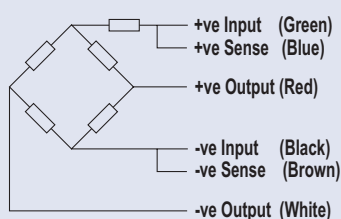
\*\* 85% utilisation.

\*\*\*Consult factory for utilisation factors.

## Outline Dimensions All Capacities in mm



## Wiring Schematic Diagram (1041 unbalanced bridge configuration)



## Also available from Tedeo-Huntleigh

The 1040 is sealed as standard to IP54, an IP67 version is also available for more demanding environmental conditions. The 1041 is sealed as standard to IP55, supplied without a cover and is of an unbalanced bridge configuration.

Also in this range, a stainless steel, bolt hole compatible version designated model 1140 is available for applications unsuitable for load cells of aluminium construction.

For further details please contact the factory or your local distributor.



**Due to Tedeo-Huntleigh's policy of continuous development, these specifications are subject to change without notice.**

**DS1040, 01.05**