

## Co-Planar Beam Load Cell



### FEATURES

- Capacity range: 7.5 to 150kg
- Only 2.5 to 8mm high
- Very low profile
- Aluminum construction
- IP65 protection
- 1000Ω input impedance
- Provides freedom in rectangular scale size design
- Matched output and current calibration circuitry
- Eliminates need for spyder in typical bench top scales

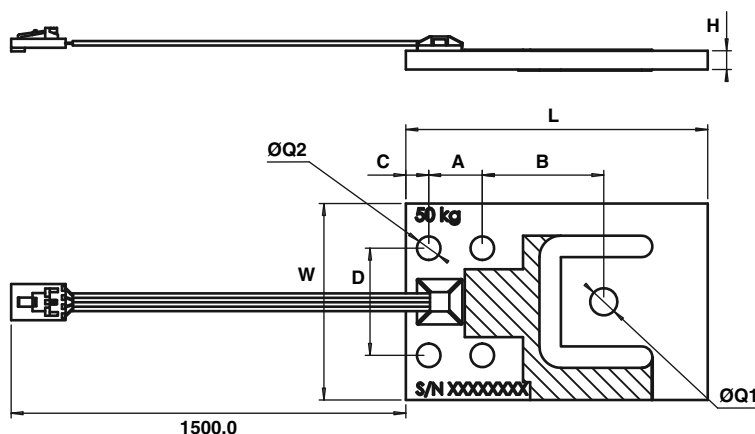
### DESCRIPTION

Model 380 is a very low profile planar beam design, allowing direct mounting in low profile platform scales. The range of capacities and low profile make model 380 most suitable for use in a wide range of applications.

### APPLICATIONS

- Personal scales
- Commonly used in low profile infant and adult medical scales
- Large and medium low profile platform scales
- Airport baggage scales
- Postal scales

### OUTLINE DIMENSIONS in millimeters



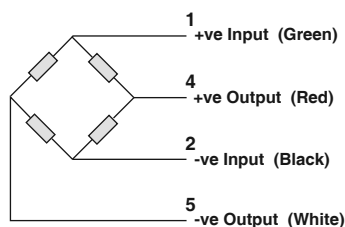
Type	L	A	B	C	D	W	H	Q1	Q2
PB-7.5kg	70	14	28	4.9	27.8	39	2.5	5.1	5.1
PB-37.5kg	76.2	15	29.3	6	30	44.5	4.8	6.2	6.6
PB-50kg	84.5	15	34	6.4	30	55	5.3	7.6	6.6
PB-75kg	84.5	15	34	6.4	30	55	6.4	7.6	6.6
PB-150kg	107.5	22.8	45.9	7.8	44.5	70	8	8.2 OR 5/16UNC	8.1

## SPECIFICATIONS

PARAMETER	VALUE			UNIT
Rated capacity-R.C. ( $E_{max}$ )	7.5, 37.5, 50, 75, 150			kg
VTH Accuracy class	E	G4	H5	
OIML Accuracy class	NA	C3	C4	
Maximum no. of intervals (n)	NA	3000	4000	
$Y = E_{max}/V_{min}^*$	NA	7500*	7500*	
Rated output-R.O.	1.0			mV/V
Rated output tolerance	0.10	0.001		±mV/V
Zero balance	0.10			±mV/V
Creep, 30 min.	0.074	0.024	0.018	±% of load
Zero return, 30 min.	0.05	0.0167	0.0125	±% of load
Temperature effect on output	0.002	0.001	0.00075	±% of load/°C
Temperature effect on zero	0.007	0.00186	0.00186	±% of R.O./°C
Input impedance	1160±15			Ω
Output impedance	1000±10			Ω
Insulation resistance	5000			MΩ
Temperature range, compensated	-10 to +40			°C
Temperature range, safe	-30 to +70			°C
Maximum safe central overload	300			% of R.C.
Ultimate static overload	400			% of R.C.
Safe side load	200			% of R.C.
Cable type	4 conductors, 26AWG, flat, PVC			
Cable length	1.5			m
Color code	+Exc: Green, +Sig: Red, -Exc: blk, -Sig: wht			
Construction	Aluminum, RTV potting			
Environmental protection	IP65			
Outline dimensions drawing	378.000.003			

\* Consult factory for higher Y values availability

### Wiring Schematic Diagram



The load cell is provided with a 4 conductor ribbon cable and with optional AMP#103957-4 connector

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