

# MINI-MOUNT

BY **SCALE-TRON**

## DESCRIPTION

The Mini-Mount allows direct mounting of a platter etc. in low profile platform scales. Four Mini-Mounts are located at the corners of a weigh platform that can be any size and shape. Different capacities allow a single set of components to be used in a family of scale platforms of many sizes and capacities. The Mini-Mount has overload protection built-in and can be used with confidence in applications where dropped items and other abuse is present.

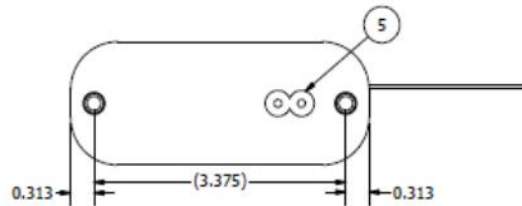
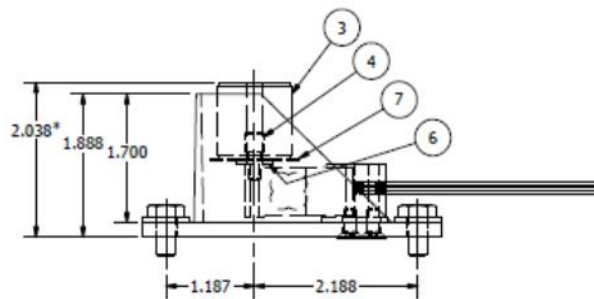
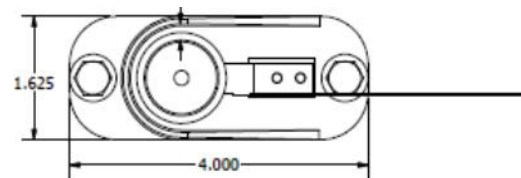


## FEATURES

- Platform capacity up to 140 kg (300 lb)
- Fully overload protected
- High stiffness gives fast response
- Approximately 2" high, allowing low profile platform construction
- IP65 protection
- 1000 ohm impedance minimizes warm-up drift caused by self-heating
- Allows wide range of platform sizes
- Female threaded top allows either secured or drop-on platters
- Matched outputs give high accuracy and interchangeability at low cost

## APPLICATIONS

- High accuracy platform scales
- Conveyor scales
- Packaging systems
- Checkweighers
- Tank and vessel weighing
- Shipping systems
- High-accuracy personal and animal scales



\* Overall height reduces to 1.89" at 130% of capacity

Although the Mini-Mount's accuracy meets all legal requirements for 3000 divisions, this scale has not been NTEP or Canadian Weights and Measures approved. If required, contact us regarding this subject.

## MODELS

**1X3-2660-30**, 30 kg capacity per mount. 4 sensors with individual connectors

**1X3-2660-4P30GA**, 30 kg capacity per mount. Suitable for platform scales up to 110 kg (242 lb) capacity and conveyor scales up to 100kg (220 lb) capacity

**1X3-2660-50**, 50 kg capacity per mount. 4 sensors with individual connectors

**1X3-2660-2P50GA**, 50 kg capacity per mount, suitable for platform scales up to 190 kg (419 lb) capacity and conveyor scales up to 180 kg (397 lb) capacity

\*Other capacities available by special order.

Mini-Mount size:	4" x 1.625" x 2.0" nominal overall height at no load Mountings – clearance for 2 bolts ¼" on 3 3/8" centers
Rated capacity:	30 or 50kg. Contact us for other capacities
OIML accuracy class:	C3, 3000 divisions. C4, 4000 divisions available
Corner balance:	Current matched to within ±0.05%. Tighter selection available
Output:	1.500 mV/V at full capacity.
Excitation:	Zero balance 5 – 15 volts, zero balance ±0.03 mV/V
Creep error:	30 min ±0.03% of load
Zero return error:	30 min ±0.03% of applied load
Temperature span error:	±0.005% of applied load/ °C
Temperature zero error:	±0.02% of rated output / °C
Output impedance:	1000 ± 5 ohm
Input impedance:	1050 ± 10
Temperature range	Operating -10 to +40 °C. Storage -30 to +70 °C
Safe vertical overload:	300 kg static or dynamic shock
Safe side overload:	400% of rated capacity in all directions (except
Sensing element:	Group Four BLSD, or equal
Transmitter 1X3-1945:	Native USB or USB "virtual serial" output, mounts separately
Environmental protection:	IP65. Dust cover optional
Cable and connections:	28 AWG, +exc=grn, -exc=blk, +sig=red, -sig=wht. Connector – Molex Micro-fit: others on special order

## RECOMMENDED MOUNTING METHODS

The Mini-Mount upper mounting point incorporates a resilient coupling to the platter which is required for overload protection and to achieve rated accuracy. The structure placed on top of the Mini-Mount can be screwed directly into the ¼-20 sockets or pins can be used to locate it in these sockets. Our recommendation is that the platter be mounted so that the rubber mounts are located in the extreme corners of the platter. If dimensional tolerance of the top structure does not allow exact location over the mounting points, use undersize screws with washers to secure the mounts to the base structure, allowing at least 2mm play in every direction; this will avoid jamming of the mounts and the resultant side loading which will reduce overall stability and accuracy.

Scale-Tron Inc. can provide full design engineering for your application, including specialized electronics and software. Contact us for further details.

**SCALE-TRON**  
Automation, sensors and weighing

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