

MAS21

Bridge Completion Module

Features

- Bridge completion for both 120Ω and 350Ω strain gauges
- Supports completion of both quarter bridge and half bridge
- Tolerance: ±0.01% and temperature coefficient :±2ppm
- IP65 junction box housing with cable glands

Description:

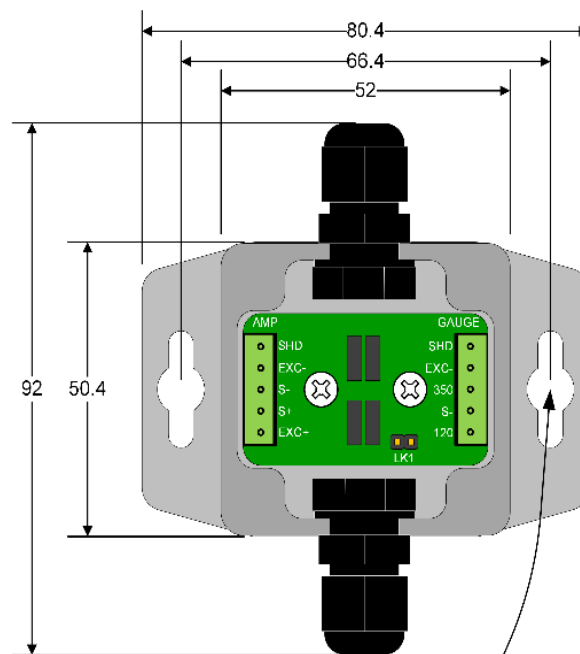
The MAS21 Bridge Completion module from MeasureX, is Suitable for both 350Ω and 120Ω strain gauges. It comes in an IP65 rated Junction Box housing with cable glands for entry and exit wiring (strain gauge wiring requires additional glue-lined heat shrink to seal). It utilizes very high precision resistors with tolerance of ±0.01 % and temperature Coefficient of ±2 PPM.

It allows the following connection types:

- 3-Wire 120 Ω ¼ Bridge
- 3-Wire 350 Ω ¼ Bridge
- 2-Wire 120 Ω ¼ Bridge
- 2-Wire 350 Ω ¼ Bridge
- Any resistance Half Bridge including 120 Ω and 350 Ω.



Dimension:



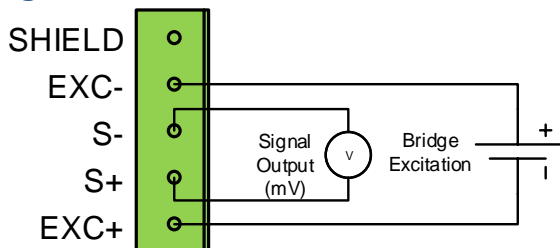
Mounting holes are designed for M4 PAN head machine screws

MAS21

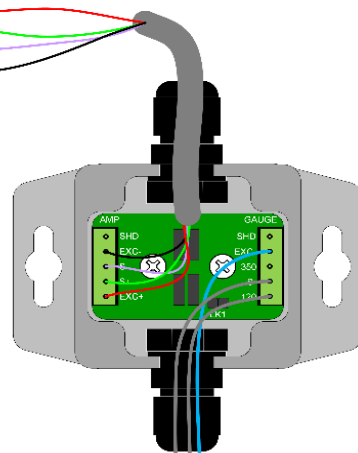
Bridge Completion Module

Wiring:

Signal Conditioner Connection:



AMPLIFIER
(i.e. SIGNAL CONDITIONER, DATALOGGER, etc.)
SHIELD
EXCITATION+
SIGNAL+
SIGNAL-
EXCITATION-

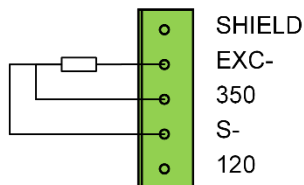


Strain Gauge connected as:
QUARTER BRIDGE, 3-WIRE

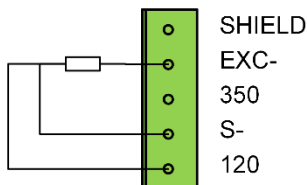
2-WIRE connections only
recommended for lead
lengths under 3m

Sensor (Strain Gauge) connections:

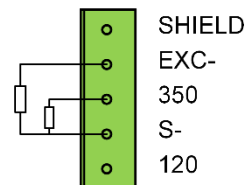
350Ω ¼ Bridge 3-wire



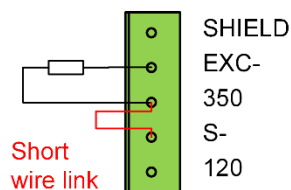
120Ω ¼ Bridge 3-wire



½ Bridge 350Ω

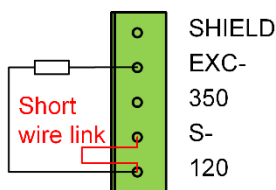


350Ω ¼ Bridge 2-wire

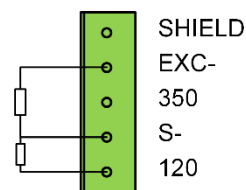


LK1 must be open

120Ω ¼ Bridge 2-wire



½ Bridge 120Ω



LK1 must be closed

Note: All specifications are subject to change without prior notice

Ver. 5.3-28/09