



Strain gauge bridge completion modules BCM2, BCM4

The modules are designed to complement one or two strain gauges to a full bridge. The modules contains two (BCM2) or three (BCM4) precision thermostable resistors and pads for convenient soldering of wires from strain gauges and measuring equipment.

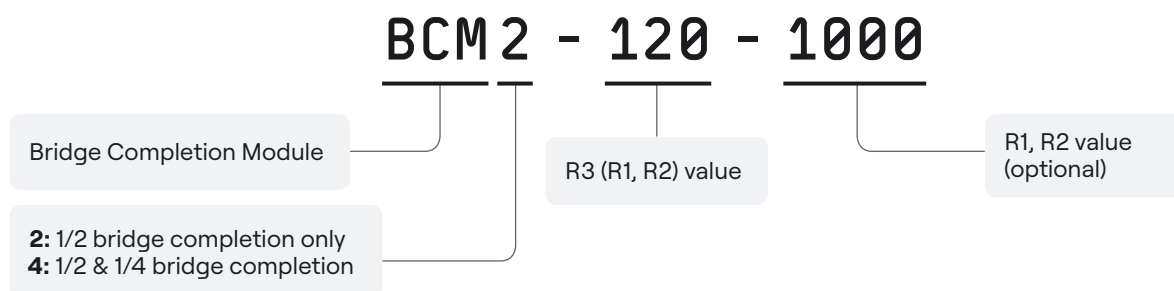
The resistors are protected from environmental influences by filling with compound. There is double-sided foam tape on the back of the module for installing the module in a convenient place. The foamed base of the tape provides insulation of the module from possible deformation of the part at the place of installation of the module.



A three-wire connection is provided to eliminate the influence of temperature changes in the resistance of the wires between the strain gauge and the module on the output signal.

The modules is available for 120 and 350 ohm strain gauges. Other configurations may be available upon request.

Designation system



Note 1

If the resistance of R1, R2 is not specifically stated, $R1=R2=R3$.

For example

BCM4-350: 1/4 bridge or 1/2 bridge to full bridge completion module with 350 ohm resistors R1, R2, R3.

BCM2-120: 1/2 bridge to full bridge completion module with 120 ohm resistors R1 and R2 each (no resistor R3).

BCM4-120-350: 1/4 bridge or 1/2 bridge to full

bridge completion module with 120 ohm resistor R3 and 350 ohm resistors R1 and R2. This version of module can be used to complement a single 120 Ohm strain gauge or a pair of strain gauges of any resistance.

Note 2

Usually $R1=R2=R3=R_{sg}$ is optimal for most applications. Increasing the resistance of resistors R1 and R2 increases the input impedance of the bridge and reduces the current consumption and can be used to save power when operating from off-grid power supplies.