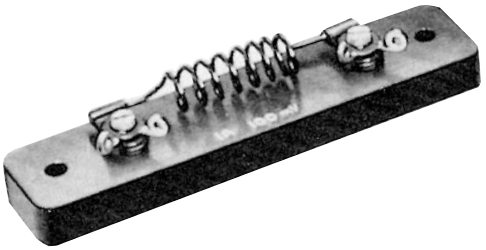
Based Mounted Shunts

828 Series



Model 828-92N

Model 828 is a compact shunt of commercial quality and is designed for chassis mounting in electronic equipment.

Specification

Accuracy class:	1.0 When calibrated together with an indicator, the overall system accuracy is within the instrument class.
Ratings:	100mA to 10A
Outputs:	Standard output is 75mV 50, 60, 100 or 150mV are available on request
Overload withstand:	1.2 x rated current continuously 10 x rated current for 5 seconds at 75mV
Temperature Coefficient:	0.002% per °C overall.
Ambient temperature:	Calibrated for 20°C, they can be used in an ambient range of -20°C to +60°C
Temperature rise:	When mounted as recommended in freely circulating air, the temperature rise should not exceed 90°C at 75mV.

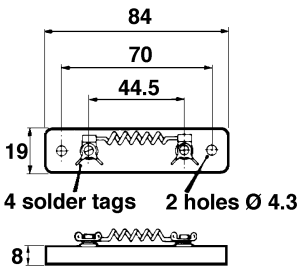
Installation

Shunts can be mounted horizontally or vertically. For maximum heat dissipation, mount horizontally with the element in free air and ensure that the equipment housing permits adequate ventilation.

Warning

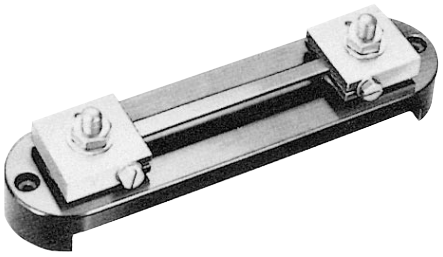
Shunts are uninsulated and protection against accidental contact may be necessary in order to comply with Health & Safety regulations.

Dimensions



Based Mounted Shunts

829 Series



Model 829-92M

Model 829 provides an alternative to the 880 series at ratings below 100A. Its black moulded base gives the additional mechanical strength required for many applications as well as providing a means of mounting.

It is equally suitable for laboratory work or for use as a component in electronic equipment.

Specification

Accuracy class: 0.5
0.2 available on request
When calibrated together with an indicator, the overall system accuracy is within the instrument class.

Ratings: 1 to 100 amps
Standard output is 75mV 50, 60, 100 or 150mV available on request

Overload Withstand: 1.2 x rated current continuously 10 x rated current for 5 seconds at 75mV

Ambient Temperature: Calibrated for 20°C, they can be used in an ambient range of -20°C to +60°C.

Temperature rise: When mounted as recommended in freely circulating air, the temperature rise should not exceed 90°C at 75mV.

Construction

The manganin resistance element is silver soldered into conservatively rated brass end blocks. These are mounted on to an insulating, moulded base, drilled to provide fixing holes.

The current terminals are substantial M8 studs fitted with locknuts and washers. Connection of the potential leads is made by M5 slotted hexagon screws.

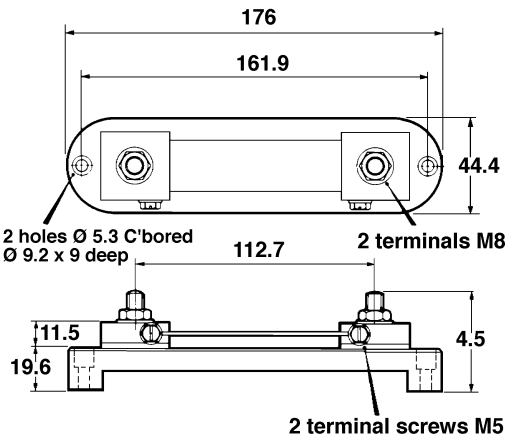
Installation

Shunts can be mounted horizontally or vertically. For maximum heat dissipation, mount horizontally with the element in free air and ensure that the equipment housing permits adequate ventilation.

Warning

Shunts are uninsulated and protection against accidental contact may be necessary in order to comply with Health & Safety regulations.

Dimensions



Crompton INSTRUMENTS

Shunts

Based Mounted Shunts

FN Series

This base mounted shunt provides an alternative to the panel meter series at ratings below 500A. Its black moulded base gives the additional mechanical strength required for many applications as well as providing a means of mounting. It is equally suitable for laboratory work for use as a component in electronic equipment.

Features

- ***Accuracy 0.25%***
- ***Insulated Base mounting***
- ***Temperature Coefficient 0.002% per 1°C.***

Specification

Ratings: 1-500A

Accuracy: 0.25%

Outputs: 50mV (or) 100mV
Refer to Factory for other outputs

Temperature Coefficient: 0.002% per °C overall

Installation

Shunts can be mounted horizontally or vertically. For maximum heat dissipitation, mount horizontally with the element in free air and ensure that the equipment housing permits adequate ventilation.

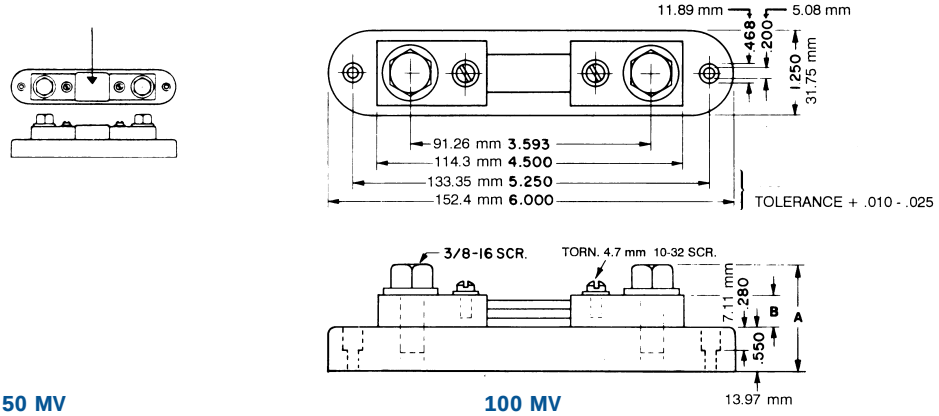
Construction

The manganin resistance element is hard soldered into conservatively rated brass end blocks. These are mounted on to an insulating, moulded base, drilled to provide fixing holes.

Warning

Shunts are not fully insulated and protection against accidential contact may be necessary in order to comply with Health and Safety regulations.

Dimensions



50 MV

CATALOG No	AMP	A		B	
		mm	in	mm	in
FN-1.50*	1	35.05	1.38	12.7	1/2
FN-2.50*	2	35.05	1.38	12.7	1/2
FN-5.50*	5	35.05	1.38	12.7	1/2
FN-10.50*	10	35.05	1.38	12.7	1/2
FN-20.50	20	35.05	1.38	12.7	1/2
FN-50.50	50	35.05	1.38	12.7	1/2
FN-100.50	100	35.05	1.38	12.7	1/2
FN-150.50	150	35.05	1.38	12.7	1/2
FN-200.50	200	35.05	1.38	12.7	1/2
FN-250.50	250	41.40	1.63	19.05	3/4
FN-300.50	300	41.40	1.63	19.05	3/4
FN-400.50	400	41.40	1.63	19.05	3/4
FN-500.50	500	41.40	1.63	19.05	3/4

100 MV

CATALOG No	AMP	A		B	
		mm	in	mm	in
FN-1.100	1	35.05	1.38	12.7	1/2
FN-2.100	2	35.05	1.38	12.7	1/2
FN-5.100	5	35.05	1.38	12.7	1/2
FN-10.100	10	35.05	1.38	12.7	1/2
FN-15.100	15	35.05	1.38	12.7	1/2
FN-20.100	20	35.05	1.38	12.7	1/2
FN-25.100	25	35.05	1.38	12.7	1/2
FN-50.100	50	35.05	1.38	12.7	1/2
FN-75.100	75	35.05	1.38	12.7	1/2
FN-100.100	100	35.05	1.38	12.7	1/2
FN-200.100	200	35.05	1.38	12.7	1/2
FN-300.100	300	41.40	1.63	19.07	3/4
FN-500.100	500	41.40	1.63	19.07	3/4

Tolerances + 0.381 mm (0.015 in) for hole diameters, other tolerances + 0.762 mm (0.030 in) unless otherwise noted.
Dimensions are subject to change without notice.

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