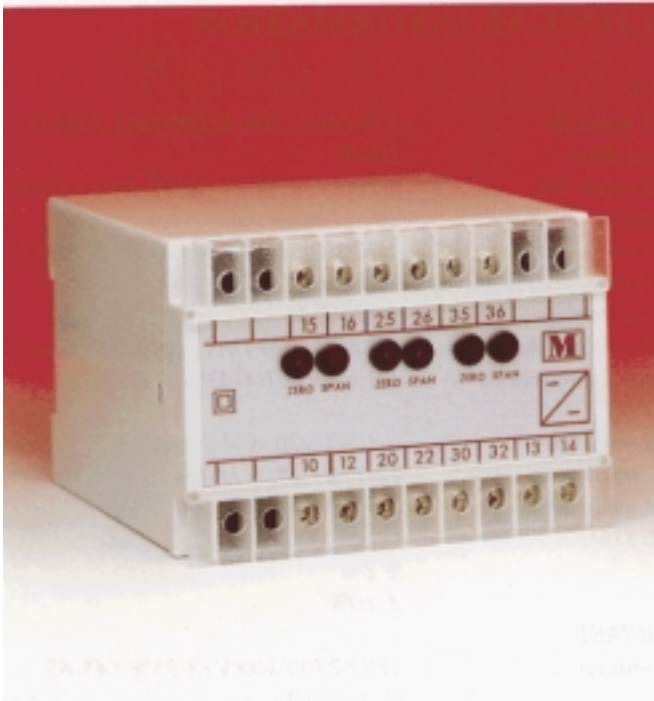


DC CURRENT OR VOLTAGE 1 INPUT 3 OUTPUTS



TECHNICAL SPECIFICATION

INPUT

Rated value In	$\pm 0-1 / 5 / 10 / 20$ & $4-20mA$
Voltage drop	$20mV$
Rated value U_n	$\pm 20mV \dots 10V$
Impedance	$100 k\Omega / volt$
Working range	$\pm 125\% In$
Overload continuous	$4 \times In$
Overload continuous	$1.5 \times U_n$

OUTPUT

Rated value mA	$0-1/5/10/20$ & $4-20mA$
Load resistance	$10/2/1/0.5 k\Omega$
Rated value volts	$0-5 / 10$ & $1-5 V$

ADJUSTMENT

Zero	$\pm 2\%$
Span	$\pm 10\%$

AUXILIARY

A.C. Voltage	$115 / 230 / 400 V (\pm 25\% / 45-65 Hz / < 2VA)$
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D.C. Voltage	$24 / 48 / 110 V (\pm 20\% / galvanically isolated / < 3W)$
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WEIGHT & CASE SIZE	Approx. 0.4 kg. 100mm case
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INSULATION

Test voltage	$1.5 kV$ between Input/ Output/Case $500 volt$ between each output
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SELECTION GUIDE

M100-DM3 One input three outputs

TYPICAL APPLICATIONS

The M100-DM3 takes 1 DC Input and provides 3 isolated outputs all directly proportional to the input. The outputs can all be of the same D.C. Value or can be different.

Typically this product is used to prevent earth loops between measuring devices. For example the M100-DM3 could have its input signal provided by a M100-WA4 watt transducer with 4-20mA output. The 3 outputs from the M100-DM3 could be as follows.

Output A = 4-20mA fed to a PLC.

Output B = 0-20mA fed to a analogue meter scaled in kW.

Output C = 1-5 volt fed to a chart recorder.

The isolation between the Input / Output / Case is 1.5kV and the isolation between each output is 500 volts.

ORDERING INFORMATION

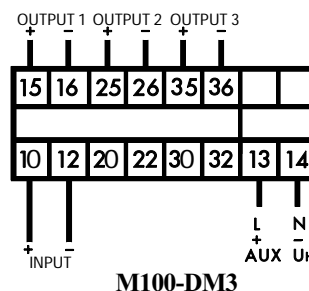
Product Code Input In Output Aux. Freq. Options

M100-DM3	1mA	A= 1mA B=4-20mA C=10V	230V	50Hz	
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OPTIONS

1. Non standard inputs / outputs only as far as technically acceptable.
2. A.C. Auxiliary in range 57.7 to 450 volts
3. Calibration at temperature other than 23°C

CONNECTION DIAGRAMS



Panel Components & Systems

GENERAL SPECIFICATIONS

ENVIRONMENTAL

Working temperature	0 to +60 deg C
Functional temperature	-25 to +70 deg C
Storage temperature	-55 to +85 deg C
Temperature coefficient	0.02% per deg C (100 ppm / °C)
Relative humidity	95% non condensing
Class of climate	HSE complying with DIN 40040 -3 complying with VDE/VDI 3540

INSULATION

Test voltage	4kV RMS 50Hz 1min. between Input / Case / Auxiliary / Output
Impulse test	EMC 5kV transient complying with IEC 801 / EN55020
HF interference test	EHF 2.5kV 1MHz complying with IEC 255-4
Protection class	II complying with IEC 348 BS 4753 / DIN 57411 / VDE 0411

APPLIED STANDARDS

General	IEC 688 / BS 6253 / VDE/ VDI 2192
Safety	BS EN61010 DIN 57411 / VDE 0411 ANSI C37
Surge withstand	IEC 801 / EN 55020 ANSI C37-90a
Radio screening	RFI degree N complies with VDE 0875
EMC	Emissions EN50081-2 Immunity EN50082-1

ACCURACY

Class	±0.2 % complying with IEC 688
Calibration temperature	23°C
Temperature coefficient	0.01% / °C (100 ppm / °C)
Stability	0.05 % per annum non cumulative
Warm up time	<15 min

OUTPUT

Rated value	See individual product pages	
Load resistance mA	1mA	<15 kOhm
(Unless otherwise stated)	5mA	<3 kOhm
	10mA	<1.5 kOhm
	20mA	< 0.75kOhm
	4-20mA	< 0.75kOhm
Load resistance volts	1, 5 & 10 volts	>1 kOhm
(M100-VA1,VA3 only)	1, 5 & 10 volts	> 50kOhm
Load influence	<0.1 %	
Ripple	<0.5% peak-peak at full load	
Response time	<200 msec for 0-99 % at full load	
Overload	<2 x rated value at full load	
No load voltage	<27 V	

ENCLOSURE

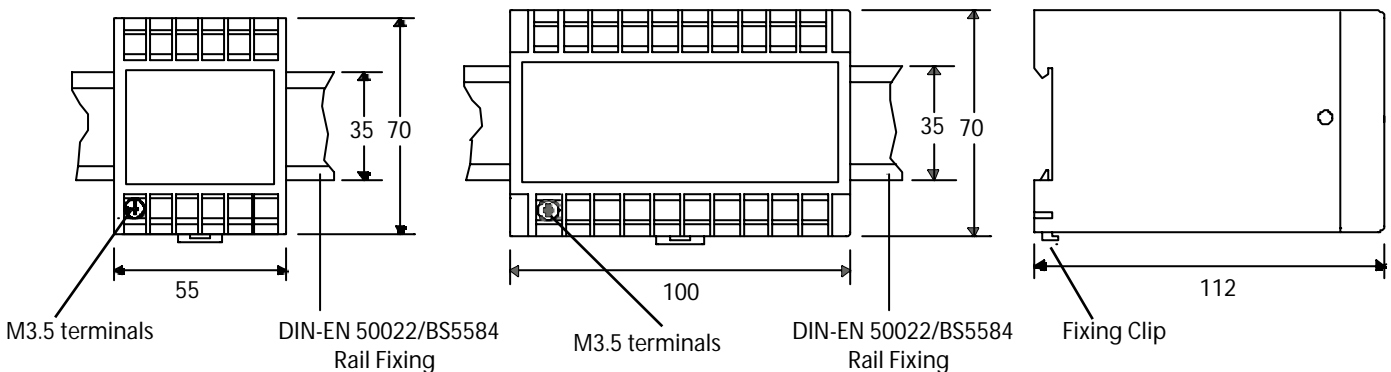
Fixing	Snap on to DIN rail 35 x 7.5 mm complies with DIN-EN 50022 BS 5584
Mounting	Any position
Enclosure Code	Case IP 50 / terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050

APPROVALS

cU.L. Approval	File No E157034
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CASE DIMENSIONS

All Dimensions in mm



Panel Components & Systems