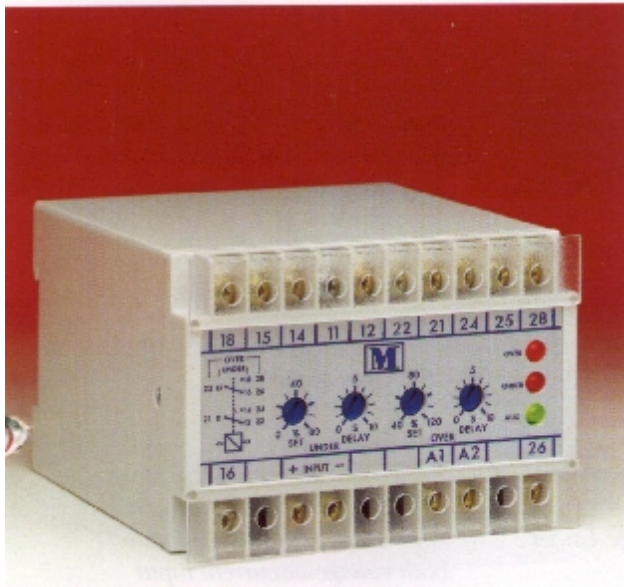




## DC TRANSDUCER TRIP



### SELECTION GUIDE

M200-TAU	DC volts or mA under trip
M200-TAO	DC volts or mA over trip
M200-TAC	DC volts or mA combined trip

### TYPICAL APPLICATIONS

The M200 DC transducer trips have endless applications. As the name implies they are designed to accept inputs from transducers and transmitters, and provide a relay operation when the transducer signal deviates outside a pre-set limit.

Any of the M100 series transducers can be used with the transducer trip. A typical application is to control power using a M100-WA5 with a 4-20mA signal fed to a M200-TAO. For example the output goes above a pre-set limit of 80%, the TAO relay will close, setting off an alarm or shutting down a process.

Either DC voltage or DC current inputs can be used. As is common with all the M200 relays, on over units the relay energises when the input signal exceeds the trip point and on under units the relay de-energises when the input signal goes below the trip point.

A red LED indicates the state of the relay, whilst a green LED indicates the condition of the power supply.

### TECHNICAL SPECIFICATION

#### INPUT

Rated value In	0<20mA or 4- 20mA
Voltage drop	1 volt
Rated value Un	1<50 volt or 1-5 volt
Impedance	10k Ohm / Volt
Overload	2xIn 1.5x Un continuous 10x In 2x Un for 3 seconds

#### SETPOINT

Range Over	Adjustable 40% to 120% for both voltage and current input.
Range Under	Adjustable 0% to 80% for both voltage and current input.
Repeatability	Better than 0.5% of full span
Time delay	Adjustable 200 ms to 10 seconds
Differential	Fixed 5%

#### AUXILIARY

AC Voltage	115/230/400 V ± 25% / 45-65Hz / 2VA
DC voltage	24 volt (± 20% / galvanically isolated) <3 watt

#### WEIGHT & CASE SIZE

Single units	Approx. 0.4kg. 55mm case
Combined unit	Approx. 0.6 kg. 100mm case

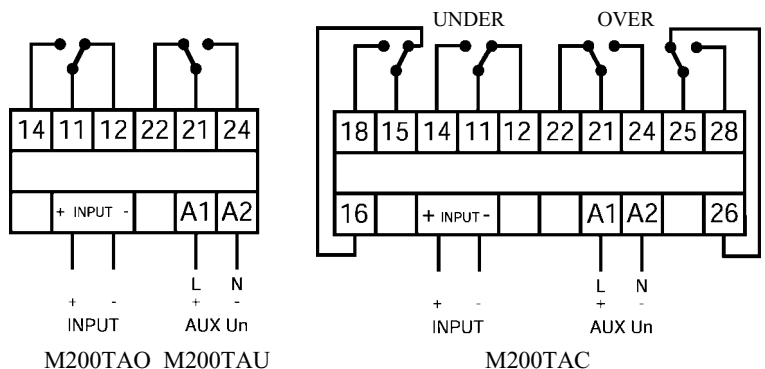
### ORDERING INFORMATION

Product Code	Input	Vn or In	Aux	Freq
M200-TAC	1mA	110v	50Hz	

### OPTIONS

1. Adjustable time delay max 30 seconds
2. AC auxiliary in the range 57.7 to 480 volts
3. Calibration at nominal Hz 35.....450Hz
4. Calibration at temperature other than 23° C

### CONNECTION DIAGRAMS



M200TAO M200TAU

M200TAC

## GENERAL SPECIFICATIONS

### ENVIRONMENTAL

Working temperature	0 to +60 deg C
Functional temperature	-25 to + 70 deg C
Storage temperature	-40 to +85 deg C
Temperature Coefficient	0.03% per deg C (300ppm/ <sup>o</sup> C)
Relative humidity	95% non condensing
Class of climate	HSE complying with DIN 40040 -3 complying with VDE/VDJ 3540

### INSULATION

Test voltage	4kV RMS 50Hz 1min between Input / Case /Auxiliary
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

### APPLIED STANDARDS

General	IEC 144/ BS 5420/ VDE/ VDI 0435/ IEC 947/ EN60947
Safety	BS EN 61010 DIN 57411 / VDE 0411 ANSI C37
Surge withstand	IEC 801 / EN 55020 ANSI C37-90a
Radio screening	RFI degree N complies with VDE087S
EMC	Emissions EN50081-2 Immunity EN50082-1

### RELAY OUTPUT

Relay type	dual pole change over
Material	Silver / Cadmium
Contact resistance	200mOhm max Typically <50m Ohm
Rating AC	250V 5A non resistive 1200VA
Rating DC	125V 1A resistive 120 watts
Electrical life	1 x 10 <sup>6</sup> at above load
Mechanical life	5 x 10 <sup>6</sup>
Operating time approx.	7ms (20ms max)
Dielectric strength	Between coil and contacts 5kV RMS 1min Between open contacts 1kV RMS 1min Between adjacent contacts 1kV RMS 1min
Insulation resistance	1000M Ohm at 500V DC
Operating temperature	-30 to + 75 deg C
Approval	UL and CSA recognised

### ENCLOSURE

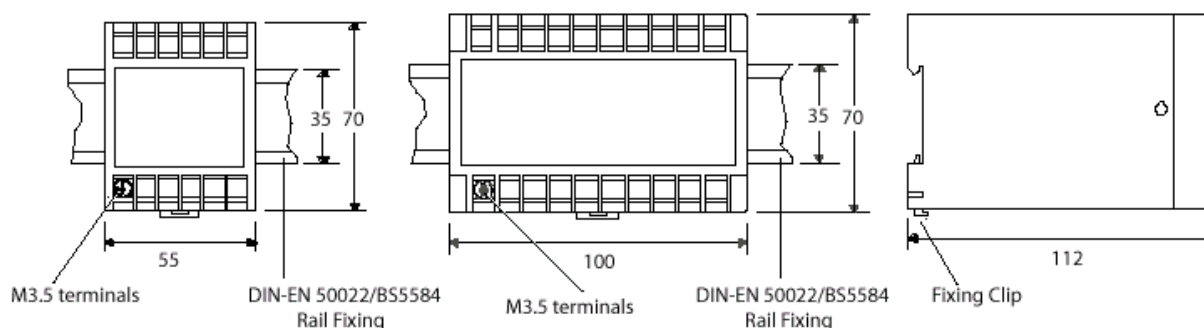
Fixing	Snap on to DIN rail 35 x7.5 mm complies with DIN-EN 50022 BS 5584
Mounting	Any position
Enclosure Code	Case IP 50/ terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050
Material	Complying with UL 94 VO

### APPROVALS

U.L. Approval File No E157034

### CASE DIMENSIONS

All Dimensions in mm



Panel Components & Systems

