

# Modular transformers

Modular TMD transformers for discontinuous service.

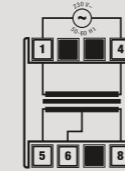


## TMD

- 1 Insulation transformers where the primary and secondary coils are electrically separated by a double insulation that minimises any damage, in the powered circuit, caused from accidental contact with the electrically active parts or earth that may become powered in case of failure of the insulation "Fault-proof" insulation transformers
- 2 The condition of overload or of short circuit may damage the device but does not create a condition of hazard for the users or the nearby parts

## DIMENSIONS (mm)

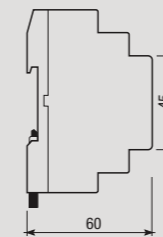
TMD 10/12  
TMD 10/24  
TMD 15/12  
TMD 15/24



Front view

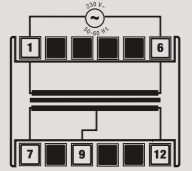


Side view

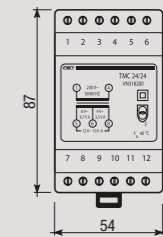


## CONNECTION DIAGRAMS

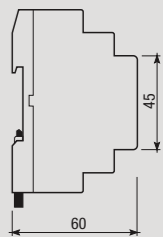
TMD 30/24



Front view



Side view



## TECHNICAL INFORMATION

### DISCONTINUOUS SERVICE (FOR BELLS)

- Double insulation
- For insulation power supply at safety extra low voltage (SELV)
- Voltage to primary 230 V
- Secondary voltage available values: 4-8-12-24 V
- Power available values: 10-15-24-30 VA
- Dimensions: 2 or 3 DIN modules depending on the power

### GENERAL CHARACTERISTICS

Primary voltage	V AC	230 (-10 ÷ +10%)
Frequency	Hz	50 / 60
Device class		II
Container		Self-extinguishing thermoplastic material (class VO), RAL-7035
Maximum ambient temperature	°C	40
Cables max section	mm <sup>2</sup>	4

Note: The secondary voltage, without load and in case of loads with high impedance, is higher than the nominal value (max 32 V)

- Connection diagram reported on the product
- Testing and dielectric rigidity trials (3.75 kV) on each apparatus

## GAS AND SAFETY

Code	Model	Description	Power	Prim. voltage	Sec. voltage	Dimensions
VN310900	TMD 10/12	Modular transf.	10 VA	230 V AC	4-8-12 V AC	2 DIN modules
VN311700	TMD 10/24	Modular transf.	10 VA	230 V AC	12-24 V AC	2 DIN modules
VN312500	TMD 15/12	Modular transf.	15 VA	230 V AC	4-8-12 V AC	2 DIN modules
VN313300	TMD 15/24	Modular transf.	15 VA	230 V AC	12-24 V AC	2 DIN modules
VN321600	TMD 30/24	Modular transf.	30 VA	230 V AC	12-24 V AC	3 DIN modules

Discontinuous service transformers			
TMD 10/12		TMD 15/12	
Terminal	Voltage	Terminal	Voltage
5-6	8 V ~ 6,7 VA	5-6	8 V ~ 10 VA
6-8	4 V ~ 3,3 VA	6-8	4 V ~ 5 VA
5-8	12 V ~ 10 VA	5-8	12 V ~ 15 VA
TMD 10/24		TMD 15/24	
Terminal	Voltage	Terminal	Voltage
5-6	12 V ~ 5 VA	5-6	12 V ~ 7,5 VA
6-8	12 V ~ 5 VA	6-8	12 V ~ 7,5 VA
5-8	24 V ~ 10 VA	5-8	24 V ~ 15 VA

Discontinuous service transformers	
TMD 30/24	
Terminal	Voltage
7-9	12 V ~ 15 VA
9-12	12 V ~ 15 VA
7-12	24 V ~ 30 VA

### REFERENCE STANDARDS

Compliance with 94/9/EC Directive