



FEATURES

- Earth Leakage Relays are residual current monitors, intended to detect potentially dangerous ground fault currents before they cause any hazard, helping on protecting personnel, electric panels and general electrical-electronic machinery. To identify an eventual AC current flowing to the grounding system, **RFT** line must be connected to current sensors of the **ST** or **STA** families. This set allows the detection of very low leakage currents with extreme reliability
- The **RFT-D2-V** models are compact units designed to DIN rail fastening. Includes RS-485 communication, LCD display and navigation keys, allowing remote and local configuration/checking of tripping currents, alarm, tripping delay time and manual or automatic reset execution
- **RFT-D2-V** also features “Fail Safe” function, which consists of opening the relay in a failure situation, to prevent the installation from continuing in operation without protection (activated when alarming or tripping conditions are met, depending on the configuration settings)

APPLICATIONS

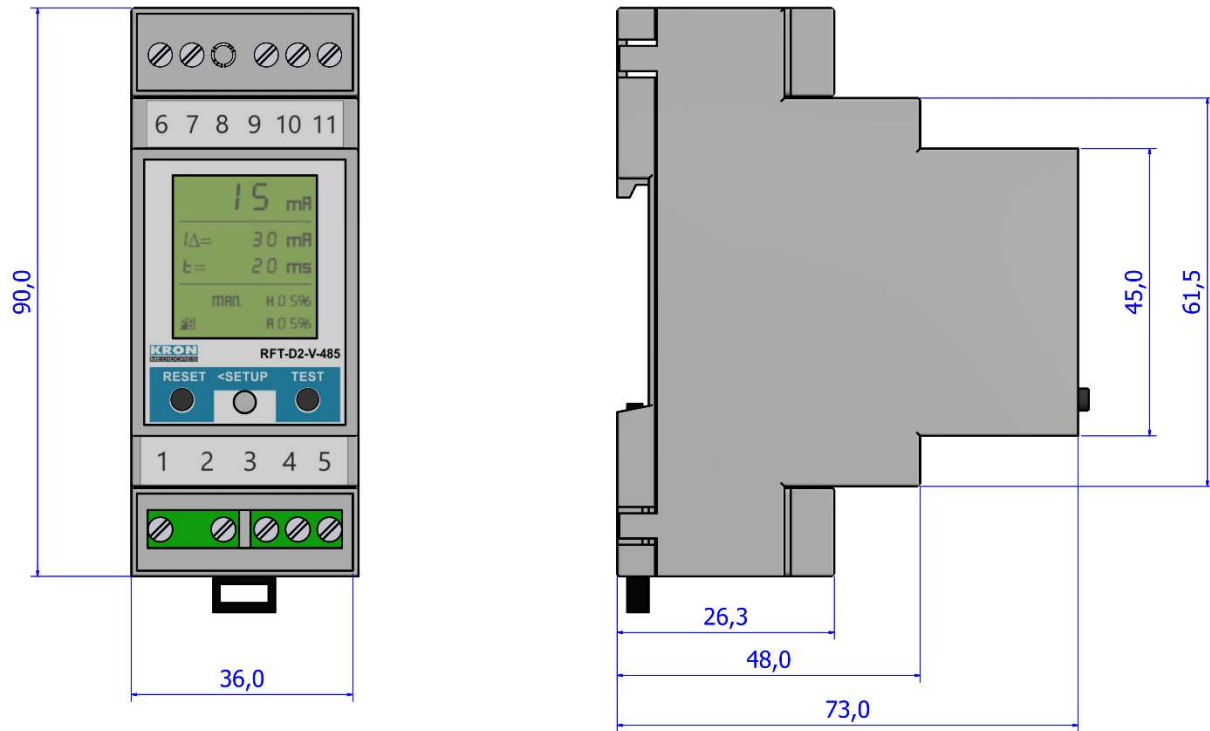
- Personnel protection against electrical shocks
- Protection of sensitive electronic equipments
- Protection for classified areas (hazardous locations and the risk of fire and explosions associated with them)

PRODUCT INFO

TRIPPING SET-POINT (CURRENT INFO)	<i>Tripping current (30ma ~ 300Aac)</i>	30m...30Aac 30...300Aac (with external multiplier CT)
	<i>Circuit's maximum current</i>	1000Aac
TOROIDAL SENSORS*	<i>Solid Core</i>	ST-2/28, ST-2/29, ST1/35, ST1/60, ST1/80, ST1/110, ST1/160, ST1/210, ST1/300, ST1/280R and ST1/350R
	<i>Split Core</i>	STA1/110, STA1/160, STA1/210 and STA1/300
TRIPPING DELAY TIME	<i>Tripping time</i>	0.02...10s
ALARM	<i>Configuration Range</i>	Alarm: 50 ... 90% of the configured tripping current Hysteresis: 0 ... 25% of the configured alarm value
OUTPUT	<i>Relay Output</i>	1 output (trip), with 3 terminais (5A / 250Vac)
COMMUNICATION	<i>Connection/Protocol</i>	RS-485: Modbus-RTU
	<i>RS-485 Cabling</i>	Shielded cables, with at least two twisted pairs (2x24 AWG), minimum section of 0.25mm ² and characteristic impedance of 120ohms.
	<i>Transmission Speed</i>	9600, 19200, 38400, 57600 or 115200bps (configurable)
	<i>Data Format</i>	8N1, 8N2, 8E1 or 8O1 (configurable)
	<i>Addressing</i>	1 to 247 (configurable)
POWER SUPPLY	<i>Voltage</i>	230Vac (±20% of nominal) 115Vac (±20% of nominal) – upon consultation
	<i>Internal Consumption</i>	< 3VA
SAFETY	<i>Insulation Test</i>	2,5kV for 60 seconds
INSTALLING	<i>Type</i>	Panel background
	<i>Fastening</i>	35 mm DIN rail
	<i>Maximum Cable to be Used</i>	2.5mm ²
DISPLAY	<i>LCD (RGB)</i>	72x100 pixels, with backlight (green = RFT on yellow = alarm red =trip)
CASE	<i>Material</i>	Thermoplastic
	<i>Protection Degree</i>	Case: IP-20 Front Panel: IP-40 (with protection sheet)
ENVIRONMENTAL CONDITIONS	<i>Operation/Storage Temperature</i>	-10 to 60°C (14 to 140°F) -20 to 80°C (-4 to 176°F)
	<i>Relative Air Humidity</i>	Maximum of 90% (without condensation)
STANDARDS	<i>Electrical Parameters</i>	CEI EN60947-2 Annex M

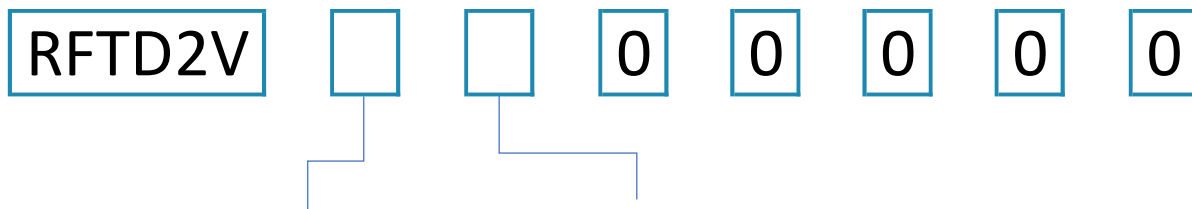
- For further information about the toroidal sensors, please check theirs technical datasheets.

DIMENSIONS



Dimensions in millimeters

How to Specify:



Power Supply:

- A: 230Vac
- B: 115Vac*

Communication:

- 0: Without output
- 1: RS-485

* Ordering upon consultation, please contact technical support

Standard Model (Example):

RFTD2V A 1 0 0 0 0

RFT-D2-V {Power Supply 230Vac} {RS-485}

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For correct utilization of the product, the User Manual must be consulted before its installation or operation.
Some items presented here may be optional, being necessary the correct product specification by their code.

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