

Monitoring Units for Surge Protective Devices (SPDs)



Monitoring Units

RayDat NMU Set
RayDat NMU-TX
RayDat NMU-RX

Special features:

- Narrow form factor - just 6.2 mm wide
- Up to 50 SPDs can be monitored with a pair of NMUs
- SPD failures are monitored by the receiving unit
- Each SPD has its own LED indicator for quick identification of any defect
- Used in systems ranging from 6-36V DC
- Equipped with quick connect terminals for fast wiring

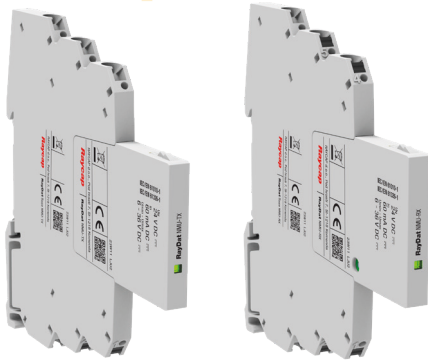


When placed on either end of a Narrow Line stack, the Monitoring Transmitter Unit (NMU-TX) & Receiver Unit (NMU-RX) will check the status of up to 50 surge protective devices in a row.

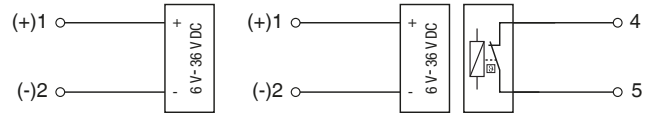
The monitoring devices have built-in LED indicators. To monitor the status of each SPD, the Transmitter Unit emits a directional light beam that travels through the individual products to the Receiver Unit.

DATA SHEET

Monitoring Unit RayDat NMU Series



Voltages: 6-36 V DC System
Housing: Modular Design
Compliance: IEC/EN 61010-1
IEC/EN 61326-1
UL 497B 4th Edition



RayDat NMU-TX Series

RayDat NMU-RX Series

Technical Data

NMU-TX Series

Electrical

Maximum Number of Controlled SPDs		up to 50
Operation Voltage	$U_{\min} - U_{\max}$	6 - 36V DC
Nominal Voltage	U_N	24V DC
Operating Current	I	60mA DC

NMU-RX Series

Electrical

Maximum Number of Controlled SPDs		up to 50
Operation Voltage	$U_{\min} - U_{\max}$	6 - 36V DC
Nominal Voltage	U_N	24V DC
Operating Current	I	60mA DC
Output (Remote Contact)	(Line 2-4)	max 50V DC, max. 500mA DC

Mechanical

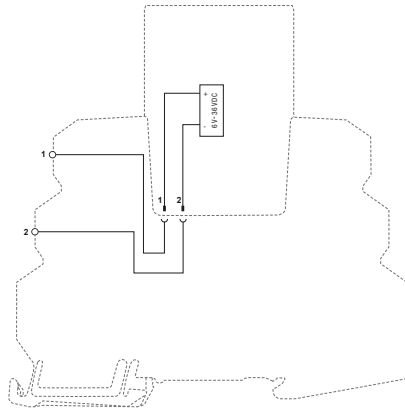
Temperature Range		-40 °F to +176 °F [-40 °C to +80 °C]
Conductor Cross Section (max.)		12 AWG / 4 mm ² (solid) 14 AWG / 2.5 mm ² (flexible)
Degree of Protection IEC/EN 60529		IP20 (built-in)
Housing Material		Thermoplastic; Grey; Extinguishing Degree V-0
Mounting IEC/EN 60715		35mm DIN Rail
Operating State / Fault Indication (NMU-RX)		Green LED / Red LED / RC Contact
Operating State (NMU-TX)		Green LED

Order Information

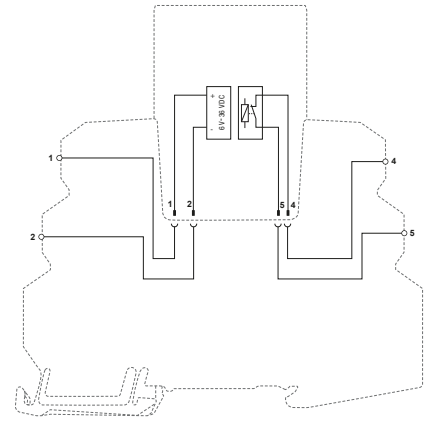
Order Code		
NMU Set (Monitoring Unit Set, Transmitter & Receiver)		7088.23
NMU-TX (Monitoring Unit Transmitter)		7088.24
NMU-RX (Monitoring Unit Receiver)		7088.25

RayDat NMU Series

Configuration

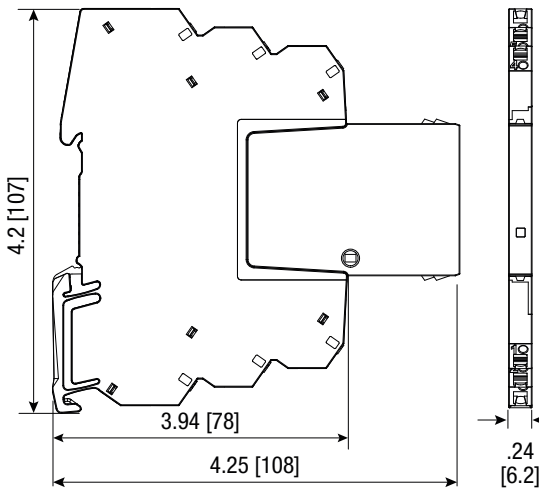


RayDat NMU-TX Series



RayDat NMU-RX Series

Dimensions & Packaging



NMU Set (NMU TX & NMU RX)

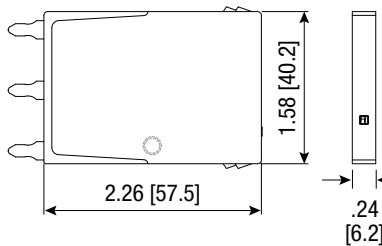
Dimensions	
Weight per Unit	3.60 oz [102 g]
Dimensions DIN 43880	.24" [6.2 mm]
Packaging Dimensions (Single Unit)	4.45 × 4.37 × 0.73" [113 × 111 × 18.5 mm]
Minimum Package Quantity	9 pieces

NMU-TX Series

Dimensions	
Weight per Unit	1.76 oz [50 g]
Dimensions DIN 43880	.24" [6.2 mm]
Packaging Dimensions (Single Unit)	4.45 × 4.37 × 0.43" [113 × 111 × 11 mm]
Minimum Package Quantity	15 pieces

NMU-RX Series

Dimensions	
Weight per Unit	1.83 oz [52 g]
Dimensions DIN 43880	.24" [6.2 mm]
Packaging Dimensions (Single Unit)	4.45 × 4.37 × 0.43" [113 × 111 × 11 mm]
Minimum Package Quantity	15 pieces



NMU-TXM Series

Dimensions	
Weight per Unit	0.49 oz [14 g]
Packaging Dimensions (Single Unit)	4.45 × 4.37 × 0.43" [113 × 111 × 11 mm]
Minimum Package Quantity	15 pieces

NMU-RXM Series

Dimensions	
Weight per Unit	0.49 oz [14 g]
Packaging Dimensions (Single Unit)	4.45 × 4.37 × 0.43" [113 × 111 × 11 mm]
Minimum Package Quantity	15 pieces

inches
[mm]

