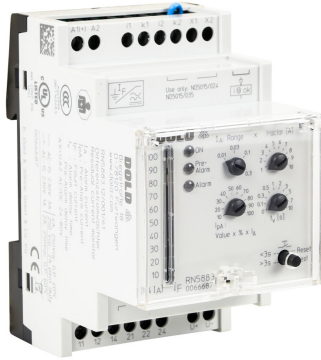




Residual Current Monitor - AC and DC Systems

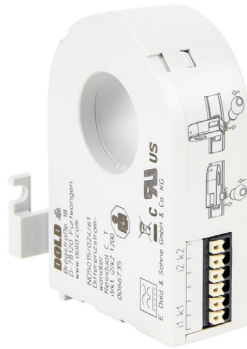
Part No. [RN5883-001-24-80V](#)

The RN 5883 AC/DC residual current monitor is used for the early detection of insulation faults and detects residual currents with both AC and DC components in earthed systems (type B). The measurement takes place via an external current transformer.

Unlike an RCD (Residual Current Device), the residual current monitor RN 5883 does not disconnect the mains when detecting a fault but only indicates it. Besides the easy-to-read LED bar graph indicating the actual current percent to trip point, several LEDs display operation, pre-alarm, and alarm. The 4 measuring ranges cover 10 mA to 3 Amp. Additional features include broken wire detection, test function, and adjustable pre-alarm. The residual current monitor RN 5883 provides early information for precise and cost effective maintenance before a breakdown occurs.

Applications

- Fire prevention and system protection
- Increase up time and plant availability through early fault detection
- Detection of earth faults in grounded voltage systems

Part No. [ND5015-24-61](#)

Features

- For AC and DC systems Type B
- 4 setting ranges from 10 mA to 3 Amp
- Protection against manipulation by sealable transparent cover over setting switches
- Manual reset, with alarm and pre-warning
- Adjustable switching delay
- Energized or de-energized on trip
- LED indicator for operation, pre-alarm and alarm
- Built-in test function
- LED bar graph indicates fault current
- Analog output
- Broken wire detection



Dold AC/DC Current Transformers										
Part Number	Core	Sensing Window	Accuracy	Requires	Mounting	Connection	Wt (lb)	Drawing Link	Manufacturer Specifications	Price
ND5015-24-61	Solid	24mm diameter	+/- 3%	Dold RN5883-001-24-80V or RN5883-001-80-230V residual current monitors	Panel or 35mm DIN rail	Push-in terminals	0.29	PDF	PDF	\$95.00
ND5015-35-61		35mm diameter					0.35	PDF		\$115.00
ND5015-070-61		70mm diameter		Dold RN5883-011-24-80V or RN5883-011-80-230V residual current monitors			0.71	PDF		\$190.00

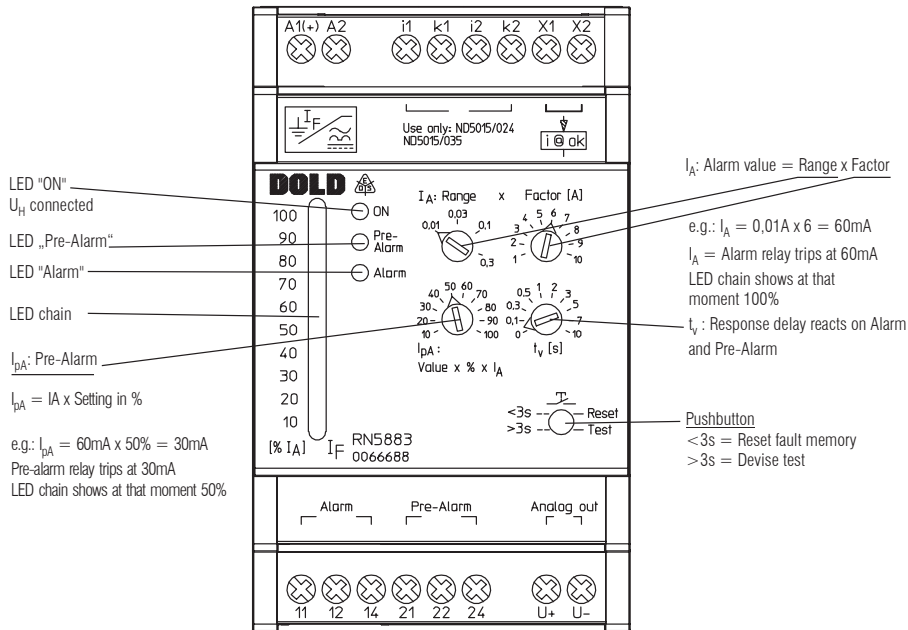
Dold AC/DC Residual Current Monitors											
Part Number	Trip Point	Output	Output Voltage Signal	Operating Voltage	Requires	Mounting	Connection	Wt (lb)	Drawing Link	Manufacturer Specifications	Price
RN5883-001-24-80V	10 mA to 3A selectable	Voltage and relay, (2) SPDT, normally energized or normally de-energized, manual reset	0-10 VDC	24-80 VAC/ VDC	Dold ND5015-24-61 or ND5015-35-61 transformers	35mm DIN rail	Screw terminals	0.52	PDF	PDF	\$470.00
RN5883-001-80-230V				80-230 VAC/ VDC				0.52	PDF		\$470.00
RN5883-011-24-80V				24-80 VAC/ VDC	Dold ND5015-070-61 transformer			0.52	PDF		\$470.00
RN5883-011-80-230V				80-230 VAC/ VDC				0.52	PDF		\$470.00

For additional technical information see Manufacturers Specifications

DOLD

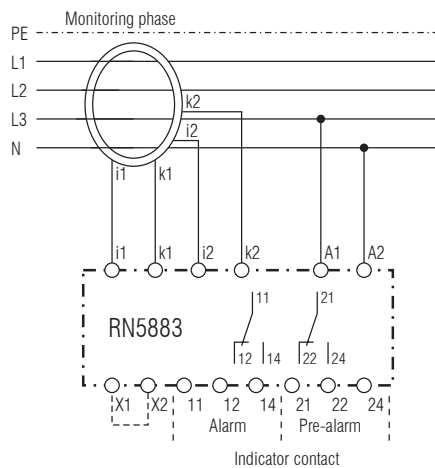
Residual Current Monitor - AC and DC Systems

Set-up and Adjustment



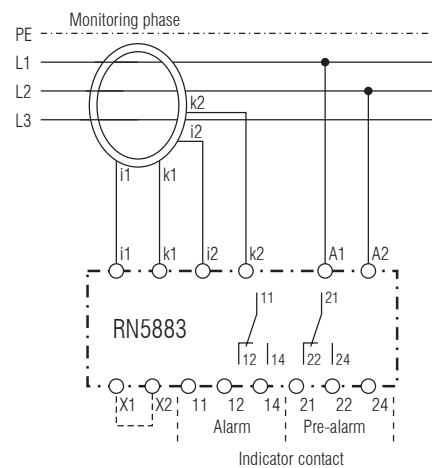
Connection Examples

Monitoring of a three-phase network with neutral conductor



X1-X2 open : Operating current
X1-X2 bridged : De-energized

Monitoring of a three-phase network without neutral conductor



X1-X2 open : Operating current
X1-X2 bridged : De-energized

For full information on connection and installation see Manufacturers Specifications