



INSULATION MONITORING DEVICES

control elettronica
ITALIAN DESIGN



Insulation monitoring devices

An IT earthing system allows your electrical distribution system to continually operate, even in the presence of an insulation fault, without endangering people or property. Required as part of an IT earthing system, an insulation monitoring device (IMD) detects the initial fault so you can make repairs before a second fault occurs, which could trigger protective devices and halt operations.

The main interest of IT systems is that in case of one insulation fault.

- Enhanced continuity of service of the network (no trip if there is one insulation fault on the network).
- Reduced risk of electric shock.
- Reduced risk of fire or explosion (low faulty current in case of insulation fault).
- Reduced stress on the network and increased equipment life (low faulty current in case of insulation fault).

For this reason, Insulation Monitoring Devices are used on IT networks in order to detect a first insulation fault so that the fault can be repaired; hence avoiding situations with several insulation faults and maintaining the continuity of service on the network.

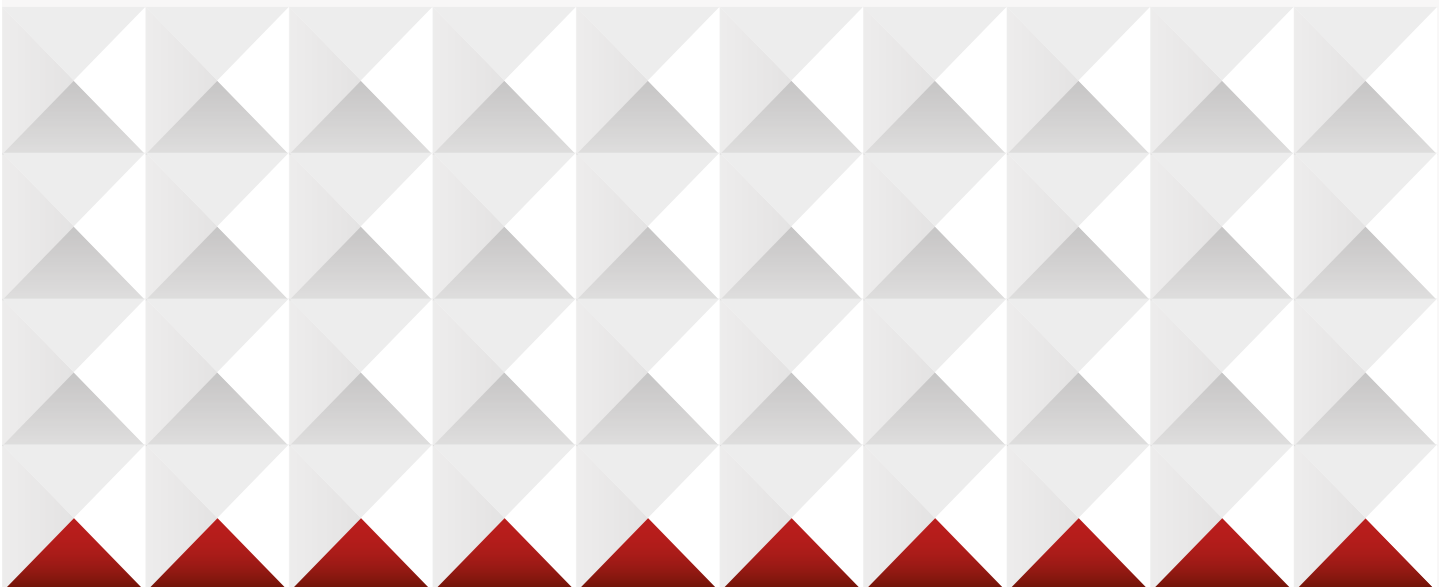
- Using an Insulation Fault Locator (IFL) allows the operator to locate the fault in multiple feeders installations.

The RI/HRI catalog offers a range of products suitable for these various applications, from the simplest insulation monitoring systems to the most advanced ones, including individual insulation monitoring per feeder and communication with supervision.

IT earthing systems are used for applications requiring continuity of service, such as:

- Healthcare: critical rooms in medical premises such as operating theaters, intensive care units, recovery rooms.
- Industry: critical processes in cement, steel, aluminium, oil and gas, chemical factories, food processing, car manufacturing, (painting area, other...) water, and waste water.
- Infrastructure: control tower and take-off path in airports, railways, seaports, tunnels, and signaling networks in rail.
- Utilities: power plants and control command systems.
- Photovoltaic: solar farms.
- Marine: electrical distribution of any type of ship.
- DC applications such as electrical vehicle charging stations.
- Medium Voltage: cable monitoring, distribution in industrial sites, MV loads-transformers and motors.

Index	Page
• Insulation monitoring devices for DC networks	40
• Insulation monitoring devices for AC networks	41
• Insulation monitoring devices for AC/DC networks	43
• Insulation monitoring devices for voltageless networks	44
• Insulation monitoring devices for healthcare facilities	44
• Insulation fault locator for healthcare facilities	47
Dimensions	48
Wiring diagrams	49



INSULATION MONITORING DEVICES
DC NETWORKS

Certification obtained: EAC | Compliant with standards: EN 61010-1, EN 61557-8, EN 61326-1

See dimensions and wiring diagrams at the end of chapter



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS	WT
RI-R11	• 2 operation thresholds • Modular 6 DIN • Configurable fail safe operation • Damaged pole LED	80-180 VDC	115 VDC	3RI44F	1	0,400
		185-275 VDC	230 VDC	3RI44H		
RI-R11D	• 2 operation thresholds • Modular 6 DIN • Configurable fail safe operation • Damaged pole LED • Insulation level visual indication	80-180 VDC	115 VDC	3RI45F	1	0,400

GENERAL CHARACTERISTICS

- Insulation monitor for DC networks
- Green power LED indicator (ON)
- Yellow indicator light for preventive insulation alarm
- Red indicator light for insulation trip
- Tripping delay < 5 sec
- LED indicator for damaged pole
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Configurable fail safe pre-alarm and operation
- LED bar for insulation level (RI-R11D only)
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS

RI-R11 e RI-R11D

- ALARM threshold setting: 30-50-80-150-300 kΩ
- TRIP threshold setting: 10-20-40-60-100 kΩ

INSULATION MONITORING DEVICES
DC NETWORKS

Certification obtained: EAC | Compliant with standards: EN 61010-1, EN 61557-8, EN 61326-1

See dimensions and wiring diagrams at the end of chapter



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS	WT
RI-R15	• 1 operation threshold • Modular 6 DIN • Configurable fail safe operation • Damaged pole LED	300 VDC	280÷340 VDC	3RI47M	1	0,400
		600 VDC	400÷600 VDC	3RI47Z		
		1000 VDC (with adapter ARI-R15)	600÷1000 VDC	3RI47O		

GENERAL CHARACTERISTICS

- Insulation monitor for DC networks
- Green power LED indicator (ON)
- Red indicator light for insulation trip
- Tripping delay < 5 sec
- Indication of which polarity of the network under control has the low insulation
- Front TEST and RESET buttons
- Configurable automatic or manual resetting


- Configurable fail safe pre-alarm and operation
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS RI-R15

- TRIP threshold setting: 30...300 kΩ

INSULATION MONITORING DEVICES AC NETWORKS

Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter





RI-F22



RI-R22



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-F22	<ul style="list-style-type: none"> Modular 3 DIN Fixed TRIP threshold 	115 VAC	220÷240 VAC	3RI02E	1	0,200
		230 VAC	220÷240 VAC	3RI02G		
RI-R22	<ul style="list-style-type: none"> Modular 3 DIN TRIP threshold adjustment 	115 VAC	220÷240 VAC	3RI01E	1	0,200
		230 VAC	220÷240 VAC	3RI01G		

GENERAL CHARACTERISTICS

- Insulation monitor for AC networks
- Green power LED indicator (ON)
- Red indicator light for insulation trip
- Tripping delay 1 sec
- Front TEST and RESET buttons (RI-R22 only)
- Manual resetting
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS **RI-F22**


- Fixed TRIP threshold: 100 kΩ

ADJUSTMENTS **RI-R22**

- TRIP threshold setting: 25...100 kΩ

INSULATION MONITORING DEVICES AC NETWORKS



Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter



RI-R38



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-R38	<ul style="list-style-type: none"> Modular 3 DIN TRIP threshold adjustment 	115 VAC	440 VAC	3RI24E	1	0,200
		230 VAC	440 VAC	3RI24G		

GENERAL CHARACTERISTICS


- Insulation monitor for AC networks
- Green power LED indicator (ON)
- Red indicator light for insulation trip
- Tripping delay 1 sec
- Front TEST and RESET buttons
- Manual resetting
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover.

ADJUSTMENTS **RI-R38**

- TRIP threshold setting: 10-30-50-100-150 kΩ

INSULATION MONITORING DEVICES AC NETWORKS

Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter





RI-R45



RI-R46



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-R45	<ul style="list-style-type: none"> Modular 2 DIN 1 operation threshold 	115 VAC	440 VAC	3RI38E	1	0,200
		230 VAC	440 VAC	3RI38G		
RI-R46	<ul style="list-style-type: none"> Modular 2 DIN 2 operation thresholds 	115 VAC	440 VAC	3RI37E	1	0,200
		230 VAC	440 VAC	3RI37G		

GENERAL CHARACTERISTICS

- Insulation monitor for AC networks
- Green power LED indicator (ON)
- Yellow indicator light for preventive insulation alarm (RI-R46 only)
- Red indicator light for insulation trip
- Tripping delay 1 sec

- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Configurable fail safe operation
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS **RI-R45**


- TRIP threshold setting: 10...200 k Ω

ADJUSTMENTS **RI-R46**

- ALARM threshold setting: 22...300 k Ω
- TRIP threshold setting: 10...200 k Ω

INSULATION MONITORING DEVICES AC NETWORKS

Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter



RI-R44
RI-R44-485





RI-R44-V
RI-R44-V-485



ACCESSORY

ARI-R60:
auxiliary voltage adapter
for isolation control 1000V
AC networks



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-R44	<ul style="list-style-type: none"> Modular 2 DIN • 2 operation thresholds Configurable fail safe operation 	115 VAC	440 VAC	3RI27E	1	0,400
		230 VAC	440 VAC	3RI27G		
RI-R44-V	<ul style="list-style-type: none"> Modular 2 DIN • 2 operation thresholds Measure and display of the network insulation resistance Configurable fail safe operation 	115 VAC	440 VAC	3RI30E	1	0,400
		230 VAC	440 VAC	3RI30G		
RI-R44-485	<ul style="list-style-type: none"> Modular 2 DIN • 2 operation thresholds Configurable fail safe operation Isolated RS485 interface 	115 VAC	440 VAC	3RI28E	1	0,400
		230 VAC	440 VAC	3RI28G		
RI-R44-V-485	<ul style="list-style-type: none"> Modular 2 DIN • 2 operation thresholds Measure and display of the network insulation resistance Configurable fail safe operation • Isolated RS485 interface 	115 VAC	440 VAC	3RI29E	1	0,400
		230 VAC	440 VAC	3RI29G		

GENERAL CHARACTERISTICS

- Insulation monitor for AC networks
- Green power LED indicator (ON)
- Yellow indicator light for preventive insulation alarm
- Red indicator light for insulation trip
- Yellow indicator LCD for preventive insulation alarm (RI-R44-V only)
- Red indicator LCD for insulation trip (RI-R44-V only)

- Configurable tripping delay
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Configurable fail safe operation
- Modbus-RTU communication protocol
- Modular DIN module, with transparent cover (RI-R44 only)
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS **RI-R44**


- ALARM threshold setting: 200% della
- TRIP threshold setting: 1-5-10-30-50-100-150-300 k Ω

ADJUSTMENTS **RI-R44-V**

- ALARM threshold setting: 1...999 k Ω
- TRIP threshold setting: 1...999 k Ω

INSULATION MONITORING DEVICES AC NETWORKS



Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter



RI-R60



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-R60	<ul style="list-style-type: none"> Modular 2 DIN 2 operation thresholds Configurable fail safe operation Insulation level visual indication 	115-230 VAC	760 VAC	3RI34V	1	0,500
ARI-R60	Voltage adapter for RI-60 insulation monitor device	-	1000 VAC	3RI35V	1	0,500

GENERAL CHARACTERISTICS

- Insulation monitor for AC networks
- Green power LED indicator (ON)
- Yellow indicator light for preventive insulation alarm
- Red indicator light for insulation trip
- Tripping delay < 5 sec
- Front TEST and RESET buttons
- Configurable automatic or manual resetting


- Configurable fail safe operation
- LED bar for insulation level
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS **RI-R60**

- ALARM threshold setting: 30-50-80-150-300 k Ω
- TRIP threshold setting: 10-20-40-60-100 k Ω

INSULATION MONITORING DEVICES AC / DC NETWORKS

Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter



RI-F48





RI-R48



RI-R48N



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-F48	<ul style="list-style-type: none"> Modular 3 DIN Fixed threshold setting 	24÷48 VAC/DC	24÷48 VAC/DC	3RI03N	1	0,200
RI-R48	<ul style="list-style-type: none"> Modular 3 DIN TRIP threshold adjustment 	24÷48 VAC/DC	24÷48 VAC/DC	3RI04N	1	0,200
RI-R48N	<ul style="list-style-type: none"> Modular 3 DIN TRIP threshold adjustment Damaged pole LED 	24÷48 VAC/DC	24÷48 VAC/DC	3RI42N	1	0,200

GENERAL CHARACTERISTICS

- Insulation monitor for AC and DC networks
- Green power LED indicator (ON)
- Red indicator light for insulation trip
- Tripping delay 0,2 sec
- Indication of which polarity of the network under control has low insulation (only for RI-R48N)
- Front TEST and RESET buttons
- Manual resetting
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS **RI-F48**

- TRIP threshold setting: 10-30-50-100-150 k Ω

ADJUSTMENTS **RI-R48**


- TRIP threshold setting: 10-30-50-100-150 k Ω

ADJUSTMENTS **RI-R48N**

- TRIP threshold setting: 10-30-50-100-150 k Ω

INSULATION MONITORING DEVICES FOR VOLTAGELESS NETWORKS

Certification obtained: **EAC** | Compliant with standards: **EN 61010-1, EN 61557-8, EN 61326-1**



 See dimensions and wiring diagrams
at the end of chapter

RI-SM



RI-SM-V-485



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RI-SM	<ul style="list-style-type: none"> Modular 2 DIN 1 operation threshold 	115 VAC	20÷500 VAC/DC (fuori tensione)	3RI52E	1	0,200
		230 VAC		3RI52G		
RI-SM-V-485	<ul style="list-style-type: none"> Modular 2 DIN 1 operation threshold Measure and display of the network insulation resistance Isolated RS485 interface 	115 VAC	20÷500 VAC/DC (fuori tensione)	3RI54E	1	0,200
		230 VAC		3RI54G		

GENERAL CHARACTERISTICS

- Green power LED indicator (ON)
- Yellow indicator light for preventive insulation alarm
- Red indicator light for insulation trip
- Yellow indicator LCD for preventive insulation alarm (RI-SM-V-485 only)
- Red indicator LCD for insulation trip (RI-SM-V-485 only)
- Tripping delay 0,2 sec
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Modular DIN module, with transparent cover (RI-SM only)
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS RI-SM (2 DIN)


- ALARM threshold setting: 120% of trip threshold
- TRIP threshold setting: 0,1-0,25-0,50-1-2,5-5-10-15 M Ω

ADJUSTMENTS RI-SM-V-485

- ALARM threshold setting: 0,1 ... 30 M Ω
- TRIP threshold setting: 0,1 ... 30 M Ω

INSULATION MONITORING DEVICES FOR HEALTHCARE FACILITIES



Certification obtained: **EAC**
Compliant with standards: **CEI EN 61010-1; CEI EN 64-8/7-710; CEI EN 61326-1**

 See dimensions and wiring diagrams
at the end of chapter



HRI-R24



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
HRI-R24	<ul style="list-style-type: none"> Pannello di segnalazione a distanza. Scatola universale tipo E503. 	24 VAC/DC	24 VAC/DC	3RI04J	1	0,200

GENERAL CHARACTERISTICS

- Medical insulation monitoring device for scialitric lamps
- Green power LED indicator (ON)
- Red indicator light for insulation trip
- Tripping delay 1 sec
- Front TEST and RESET buttons
- Manual resetting
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover


ADJUSTMENTS PER HRI-R24

- TRIP threshold setting: 25 ... 100 k Ω

INSULATION MONITORING DEVICES FOR HEALTHCARE FACILITIES

Certification obtained: **EAC**



Compliant with standards: **CEI-EN 64-8/7-710, CEI EN 61557-8, EN 60255-6, UNE 20615**

 See dimensions and wiring diagrams
at the end of chapter



HRI-R40



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
HRI-R40	<ul style="list-style-type: none"> Modular 6 DIN Alarm threshold: low insulation, low impedance, over temperature, over current, Link-Fail 	115 VAC / 230 VAC	24÷230 VAC	3RI83V	1	0,500
HRI-R40-485	<ul style="list-style-type: none"> Modular 6 DIN Alarm threshold: low insulation, low impedance, over temperature, over current, Link-Fail Isolated RS485 interface using Modbus RTU 	115 VAC / 230 VAC	24÷230 VAC	3RI85V	1	0,500
HRI-R40W	<ul style="list-style-type: none"> Modular 6 DIN Thanks to a codified signal, it grants absolute reliability of measurement in any operational condition, even if high network interferences occur. Isolated RS485 interface using Modbus RTU 	115 VAC / 230 VAC	24÷230 VAC	3RI86V	1	0,500

GENERAL CHARACTERISTICS

- Medical insulation monitoring devices
- Insulation resistance is measured by applying a direct current signal between insulated line and earth
- Displays the resistance and impedance of the network insulation
- Monitoring of the isolation transformer
- Monitoring of the current consumed by the loads
- Red LED for signaling insulation threshold intervention
- Red LED for signaling intervention of the overtemperature threshold
- Red LED for signaling intervention of the current overload threshold
- Red LED indicating device not connected to the line (LINK-FAIL)
- Tripping delay 3 sec


- Front TEST and RESET buttons
- Ripristino automatico o manuale impostabile
- Configurable fail safe operation
- Modular DIN module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ADJUSTMENTS HRI-R40

- Low resistance threshold: 50÷500 kΩ
- Low impedance threshold: 50÷500 kΩ
- Overtemperature of the transformer: 0 ÷ 200 °C
- Overload of the transformer: 1 ÷ 999 A
- Device not connected to the line (LINK-FAIL)

INSULATION MONITORING DEVICES REMOTE SIGNALLING PANEL



Certification obtained: **EAC** | Compliant with standards: **CEI EN 61010-1; CEI EN 61557-8; CEI EN 64-8/7-710; UNE 20615; CEI EN 61326-1**

 See dimensions and wiring diagrams
at the end of chapter



PR-5



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
PR-5	<ul style="list-style-type: none"> Panel provides an acoustic and luminous signal in case of low insulation or thermal and electrical overload Operational efficiency: both visual and acoustic signalling 	24 VAC/DC (from HRI-R40 device)	-	3RIA08	1	0,200

GENERAL CHARACTERISTICS

- Remote signalling panel enables to send alarm signals from the insulation monitoring devices
- Green LED (device is working properly)
- Red LED for overload alarm
- Yellow LED for fault alarm


- TEST and MUTE pushbutton
- Compact size: installation in a universal 3-module flush-mounted box type E503, in horizontal or vertical position
- Degree of protection: IP30

INSULATION MONITORING DEVICES

OPERATING THEATER DISPLAY

Certification obtained: **EAC**



Compliant with standards: **IEC/EN 61010-1, EN 61000-6-2, EN 61000-6-4**

 See dimensions and wiring diagrams at the end of chapter



RMS-24



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
RMS-24	<ul style="list-style-type: none"> Compact data concentrator of several insulation monitoring devices for hospitals. It is possible to immediately understand if the system works correctly or if, on the other hand, it has anomalies or damage. Alarms page: summarizes the measurements in a single screen real time, maximum and minimum (resistance, impedance, transformer overtemperature and overcurrent) and alarms (Error - Link Fail; low insulation; programmed alarm threshold exceeded) Configuration page: it is possible to configure the system to be monitored and monitored. Password access protection Isolated RS485 interface for Modbus RTU 	90-250 VAC/DC	-	3ML30V	1	0,400
		24-48 VAC/DC	-	3ML30N	1	0,400
RMS-24-Eth	<ul style="list-style-type: none"> Compact data concentrator of several insulation monitoring devices for hospitals. It is possible to immediately understand if the system works correctly or if, on the other hand, it has anomalies or damage. Alarms page: summarizes the measurements in a single screen real time, maximum and minimum (resistance, impedance, transformer overtemperature and overcurrent) and alarms (Error - Link Fail; low insulation; programmed alarm threshold exceeded) Configuration page: it is possible to configure the system to be monitored and monitored. Password access protection Ethernet interface for Modbus TCP / IP 	90-250 VAC/DC	-	3ML302V	1	0,400
		24-48 VAC/DC	-	3ML302N	1	0,400



SYSTEM
CONFIGURATION
PAGES



DEFINITION ALPHA-
NUMERIC OF THE
MEDICAL PREMISES



MANAGEMENT OF
ALARMS ON THRE-
SHOLD EXCEEDING



CONTROL THE STA-
TUS OF A GROUP
OF OPERATING
THEATRES



ALARM
LOGGER
ENABLING




ENABLING INTER-
NAL BUZZER

GENERAL CHARACTERISTICS

- RMS-24 is an interface to be installed in a medical critical room such as an operating theater.
- Simple and intuitive human machine interface, informing the medical staff about the status of the medical room
- Works in conjunction with insulation monitors such as HRI-R40 and fault locator such as HRI-IFL-4
- 320x240 pixel color TFT display
- Alarm signaling LED
- Event storage and management
- Advanced I / O functions
- Relay outputs each with 1 changeover contact, both settable for intervention or 1 for intervention and 1 for pre-alarm
- Positive safety operation settable with pre-alarm
- Include a buzzer to provide a sound signal in case of alarm.
- Acoustic silence button on the front
- Front insulation monitor functional test buttons
- Modbus-RTU communication protocol
- Modbus-TCP communication protocol (optional)
- Housing for recessed mounting 96x96x50mm
- Degree of protection: IP20 terminals, IP40 on front

INSULATION FAULT LOCATOR FOR HEALTHCARE FACILITIES



Certification obtained: **EAC** | Compliant with standards: **CEI EN 61010-1; CEI EN 64-8/7-710; CEI EN 61326-1**

 See dimensions and wiring diagrams at the end of chapter



HRI-HFL-4



TYPE		RATED AUXILIARY SUPPLY VOLTAGE	NETWORK TO MONITOR	ORDER CODE	PCS 	WT 
HRI-IFL-4	<ul style="list-style-type: none"> • Insulation fault locator, simultaneously for 4 lines • Monitoring of the ground insulation of each individual line • The insulation fault is displayed by 4 LEDs, one for each line • Communication via Modbus RS485 protocol to allow measurement and event reporting to the supervisory system 	115 VAC / 230 VAC	-	3RI90V	1	0,600

Application

- For Medical premises such as operating theaters, intensive care units, Recovery rooms, designed as per IEC60364-7-710, where ungrounded networks are used and where automatic insulation fault location is required.
- Strongly recommended in networks where a medical IT system is used to supply multiple rooms or locations

Insulation Fault Locator

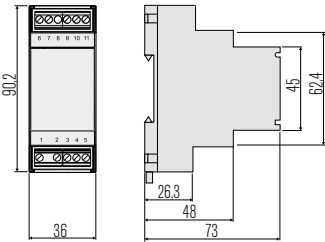
If an insulation fault occurs on the IT network, the latter must be localized and corrected, with a minimum interruption of site operations.

The search for the fault can be performed by sequentially opening the circuit breakers; however this method causes the temporary interruption of the power supply on the various departures.

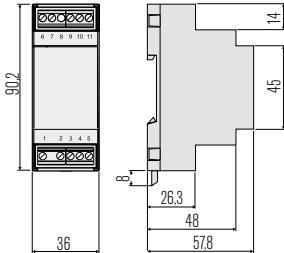
To avoid this situation, it is useful to use insulation fault locators as they allow you to automatically locate the fault while maintaining continuity of service on the site. In networks that contain numerous lines, the use of fault locators also saves time and operating costs in network maintenance.

The insulation fault locators are associated with a permanent insulation controller. Their measurement principle is based on the low frequency component injected by the insulation monitor.

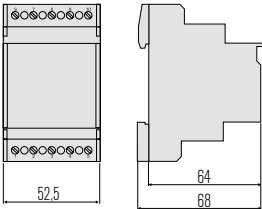
RI-SM | RI-R44-V | RI-R45 | RI-R46



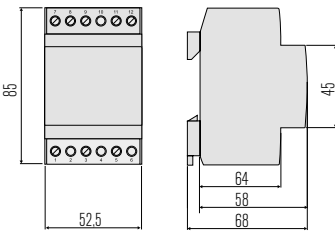
RI-R44-V | RI-SM-V



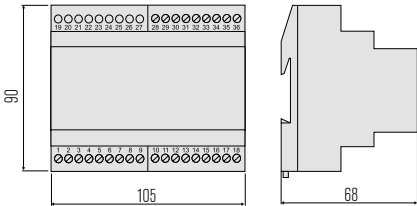
RI-F48 | RI-R48 | RI-F22 | RI-R22 | HRI-R24



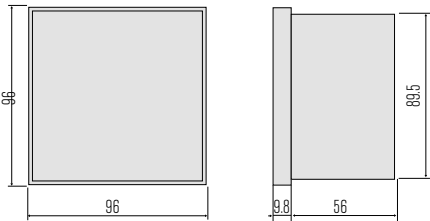
RI-R38 | RI-R48N



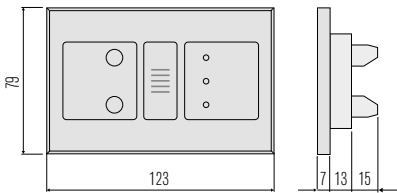
RI-R11 | RI-R11D | RI-R60 | HRI-R40 | ARI-R60



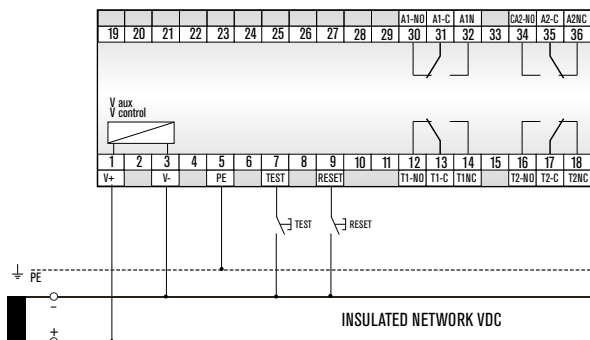
RMS-24



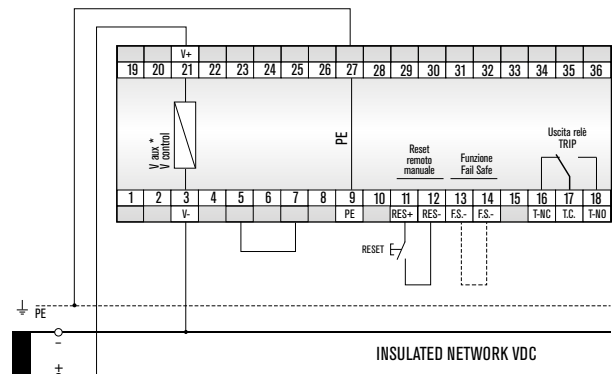
PR-5



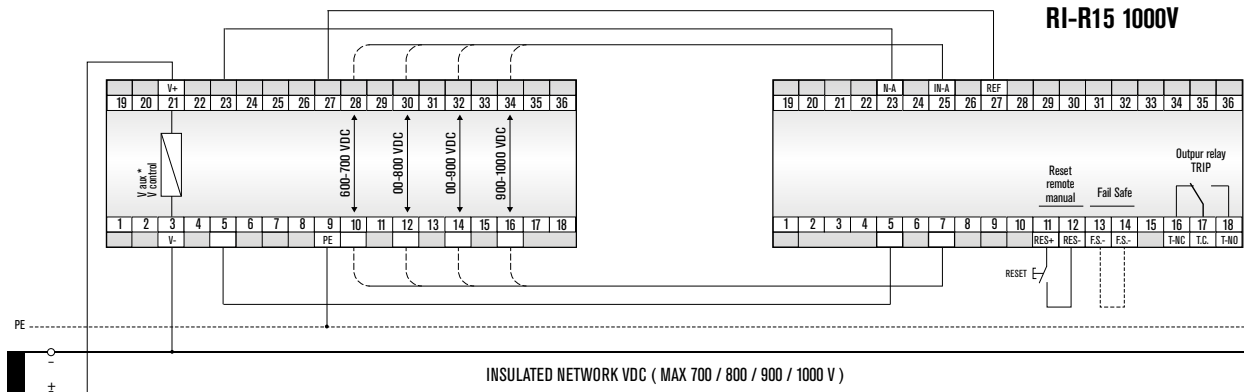
RI-R11 | RI-R11D



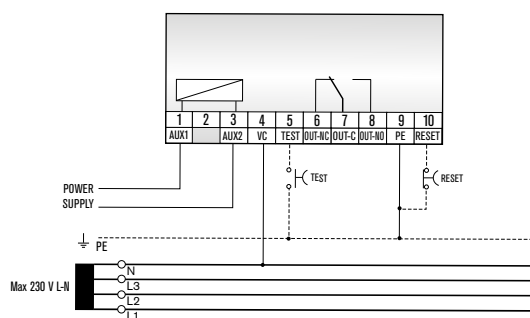
RI-R15



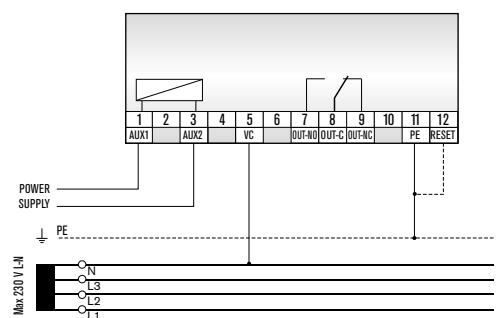
RI-R15 1000V



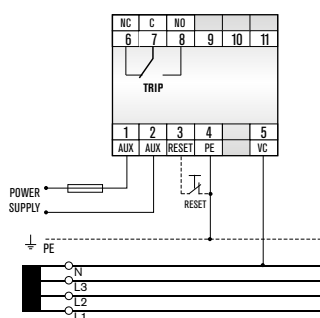
RI-F22 | RI-R22



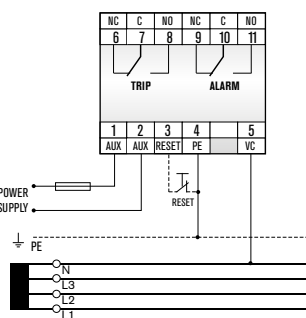
RI-R38



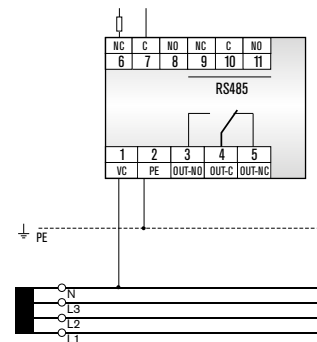
RI-R45



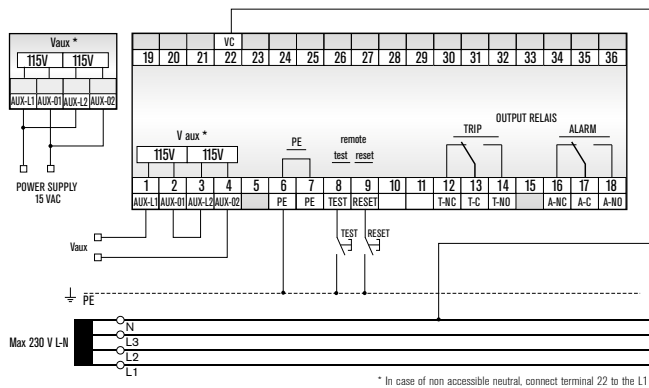
RI-R46



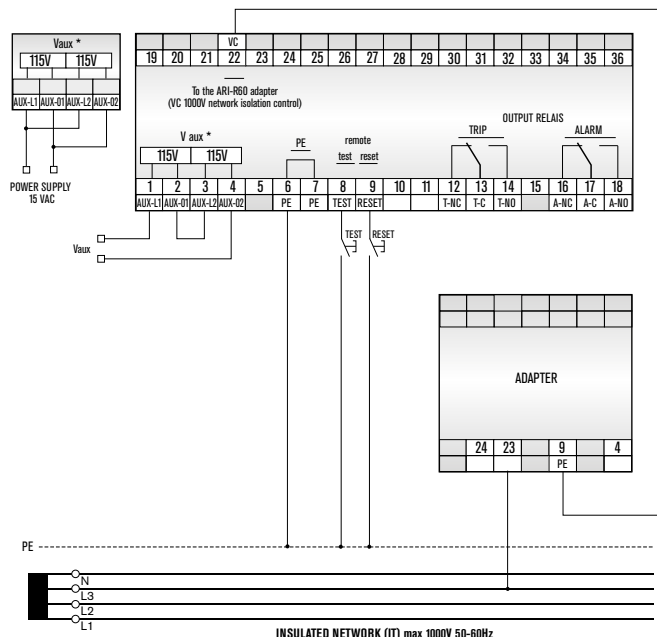
RI-R44 | RI-R44-V



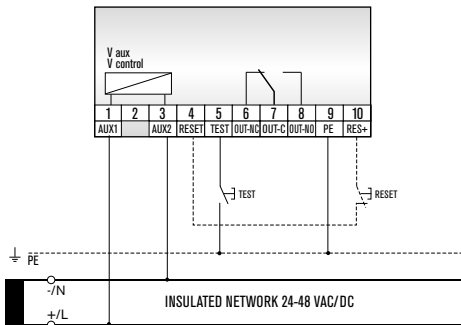
RI-R60



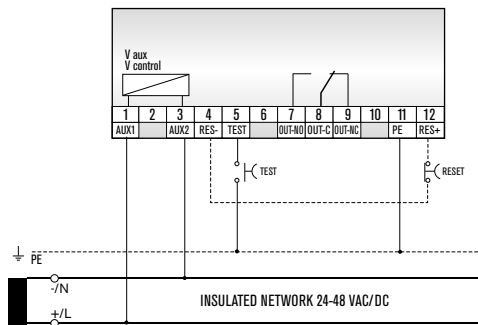
RI-R60 1000



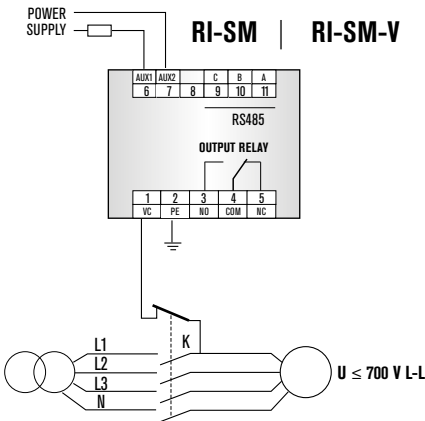
RI-F48 | RI-R48



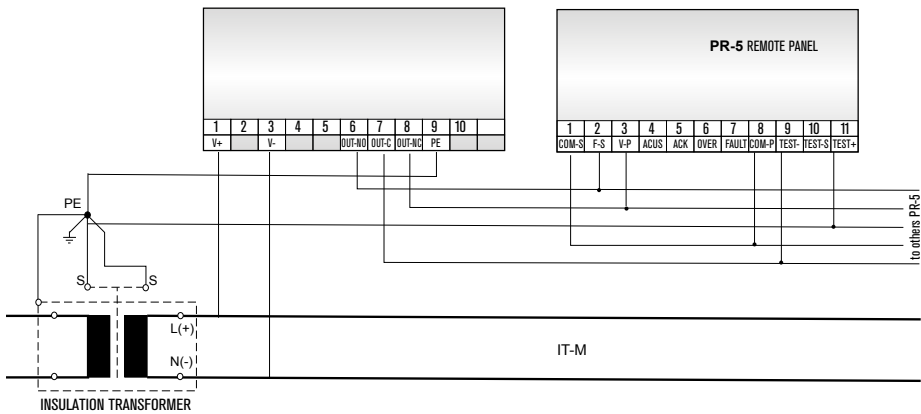
RI-R48N

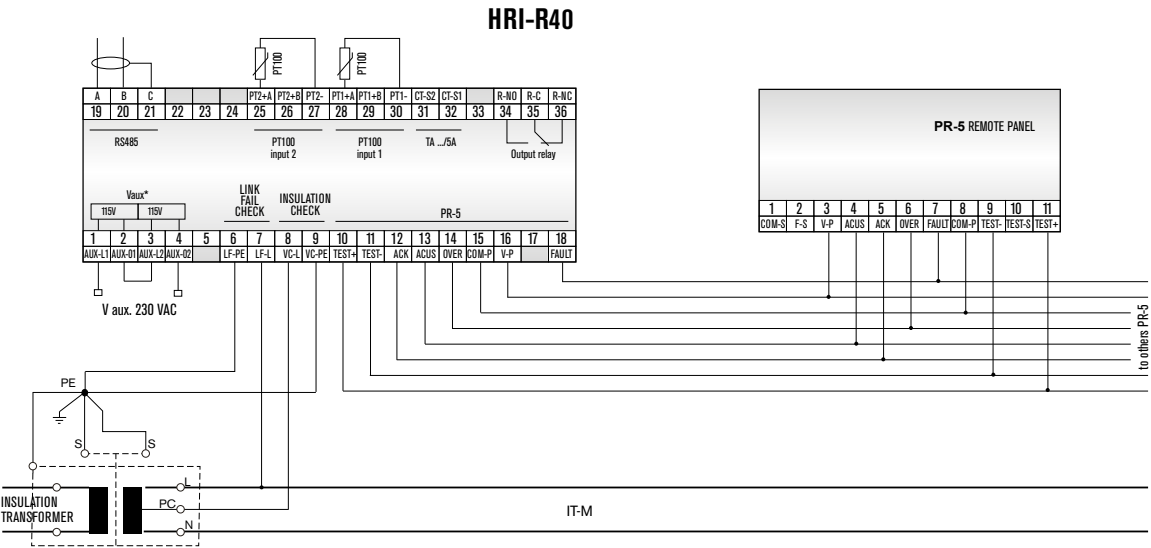


RI-SM | RI-SM-V



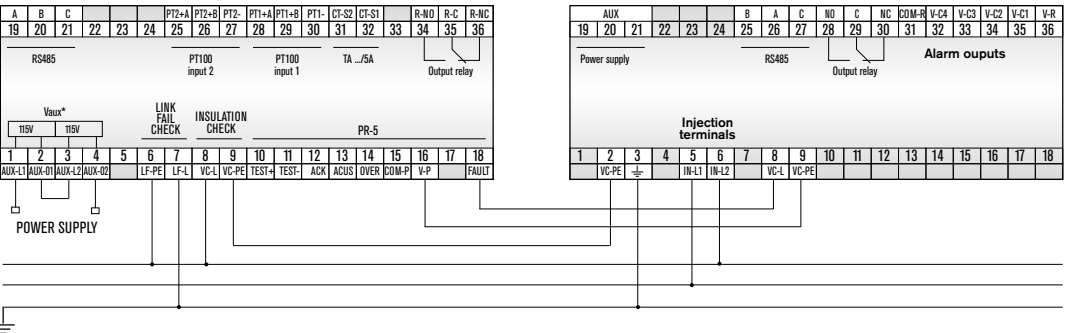
HRI-R24

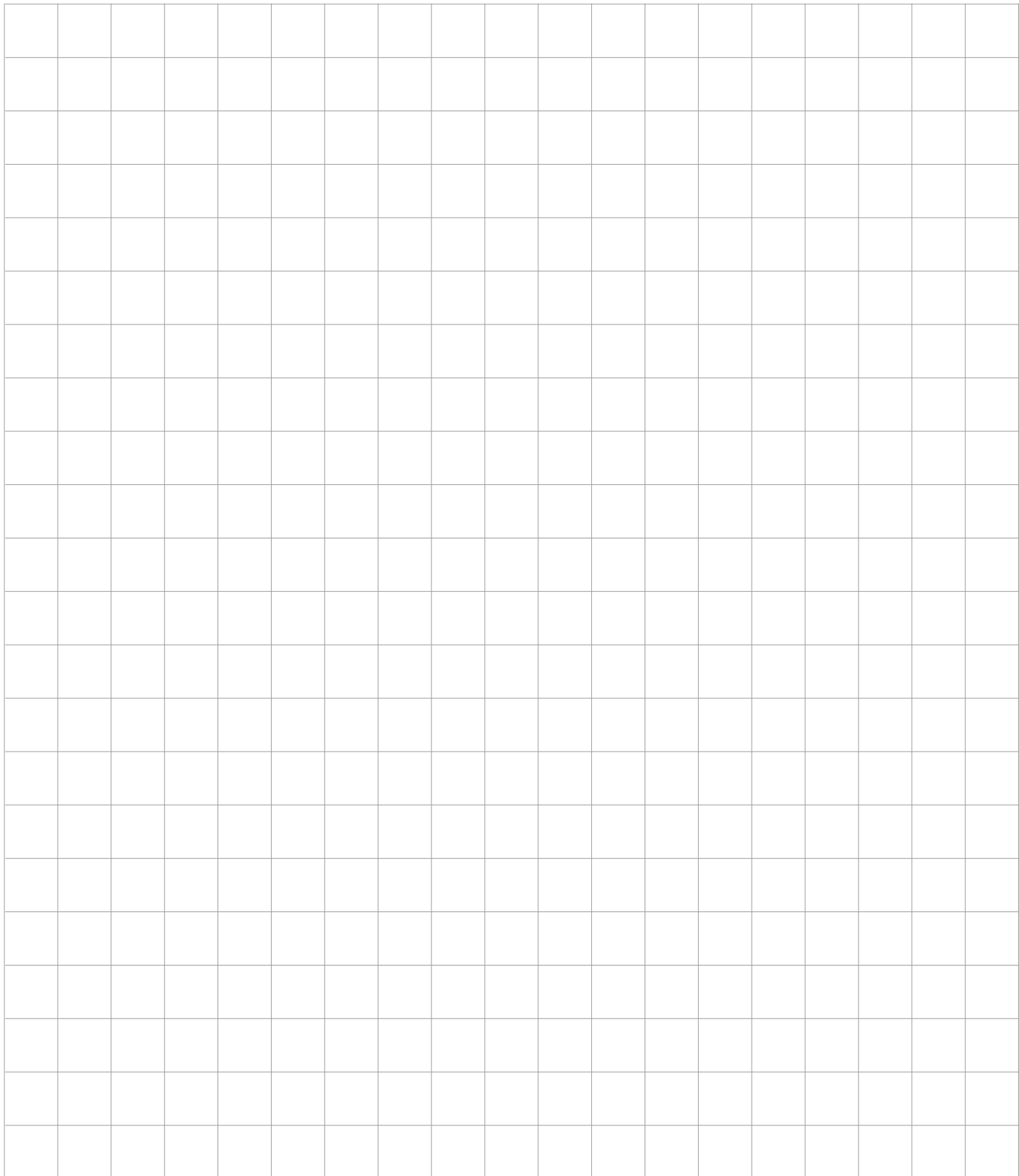
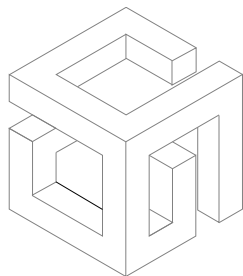




HRI-R40

HRI-IFL-4





According to the copyright and the civil law,
the reproduction of this catalogue,
or any part of this one, by electronic,
mechanical methods, by means of photocopies,
microfilms, recordings or other, is peremptorily forbidden.

Rights are reserved for all countries.

Drawings, specifications and reference numbers
may be modified and changed. CONTREL elettronica s.r.l.
reserves it self the right, to make changes
for technical or quality improvements, without any notice.



CONTREL elettronica s.r.l.

Via San Fereolo, 9

26900 LODI Italia

Tel. +39.0371.30207

control@control.it

control@control.eu



www.control.it