

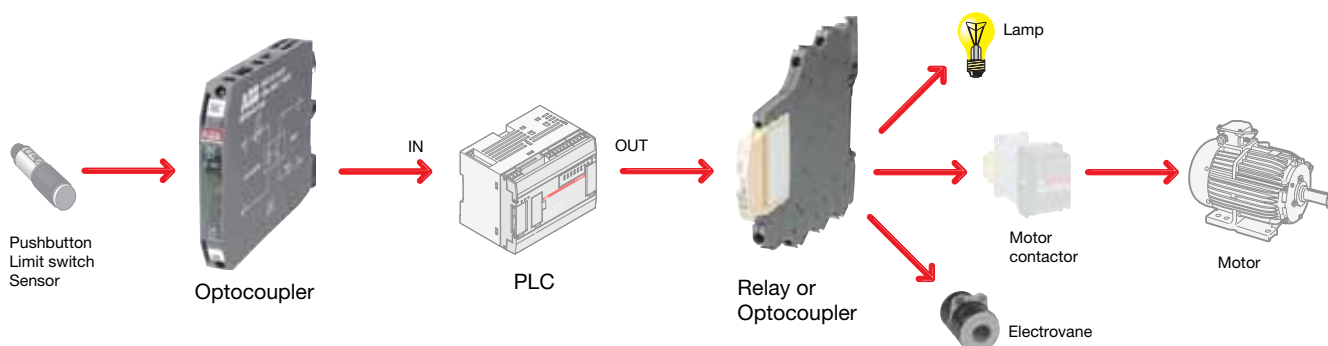
Applications

In today's automation systems, PLCs are the core of industry. They link sensors and actuators to the process, which are connected to the PLC via conventional wires.

However these PLCs are not completely isolated from the industrial environment, hence over voltage picks and transient currents can affect their operating functions. And additionally, their application field is often limited to 24 VDC / 100 mA.

So, with the aim to adapt application voltage and/or current and provide as well the right galvanic isolation to the PLC, it is recommended to install per I/O the right interface providing both voltage-current level adaptation and isolation protection.

This interfacing is possible thanks to ABB's relays and optocouplers ranges, which offer wide adaptation in both voltage (from 5 to 400 V) and current (from 10-7 to 16 A) as well as high isolation between input and output from 2 to 4 KV.



Technical data

R600 series

Standard range in screw clamp or spring clamp versions

- Spacing : 6 mm
- Wire size : 2.5 mm² (4 mm² solid wire)
- Contact type : 1 NO, 1 NC, 1 SPDT, 1 DPDT from 1 mA to 8 A / 250 V
- Transistor : 100 mA
MOS : 1 A to 5 A
Triac : 1 A to 2 A



R500 series

It is our range offering pluggable functions

- Spacing : 5.08 mm (the smallest in the market)
- Wire size : 2.5 mm² (4 mm² solid)
- Contact type : 1 SPDT from 10 mA to 6 A / 250 V
- Transistor : 30 mA to 100 mA
MOS : 1 A to 2 A
Triac : 1 A



R910 series

It is a relay inside a terminal block

- Spacing : 9 mm
- High wiring capacity 4 mm²
- Contact type : 1 NO from 10 mA to 5 A / 250 V
- Good isolation 3 kV



R900 series

The fastest optocoupler in the market

- Spacing : 9 to 15 mm
- Wire size : 2.5 mm² (4 mm² solid)
- Contact type : 1 SPDT or 1 DPDT contacts from 1 mA to 6 A / 250 V
- Transistor : 100 mA to 5 A
MOS : 5 A
Triac : 1 A to 5 A



R1800 series

It is the range dedicated to special applications

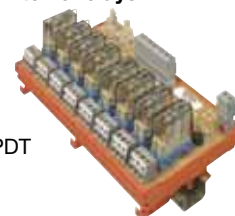
- Spacing : 18 to 23 mm
- Wire size : 2.5 mm² (4 mm² solid)
- Contact type : 1 NO, 1 NC, 1 NO + 1 NC, 4 NO, 1 SPDT, 1 DPDT from 10⁻⁷ A to 8 A / 250 V
- Transistor : 25 mA to 1 A



R20000 series

It is our PCB mounted range of modules 1 to 16 relays

- Spacing : 12,7 to 325 mm
- Wire size : 2.5 mm²
- Contact type : 1 NO, 1 NC, 1 SPDT, 1 DPDT from 1 mA to 16 A / 250 V
- MOS : 3 A
Triac : 3 A



STANDARD RANGE R600

COMFORT

EASY MARKING

Box function with markers type RC610
Wire connection with markers type RC65
Electrical schematic of the block on the side of the block

Type RC610



Type RC65

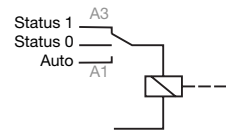
MANUAL OR AUTOMATIC FUNCTIONNING

Micro-Switch allowing forcing of the coil input to 0 or 1 for interventions in equipments.

Two possibilities:

With a visible switch located on front side. (Fig. 1)

With a secure switch (Fig. 2) after acces hatch opening (Fig. 3)



(Fig. 1)



(Fig. 3)



(Fig. 2)



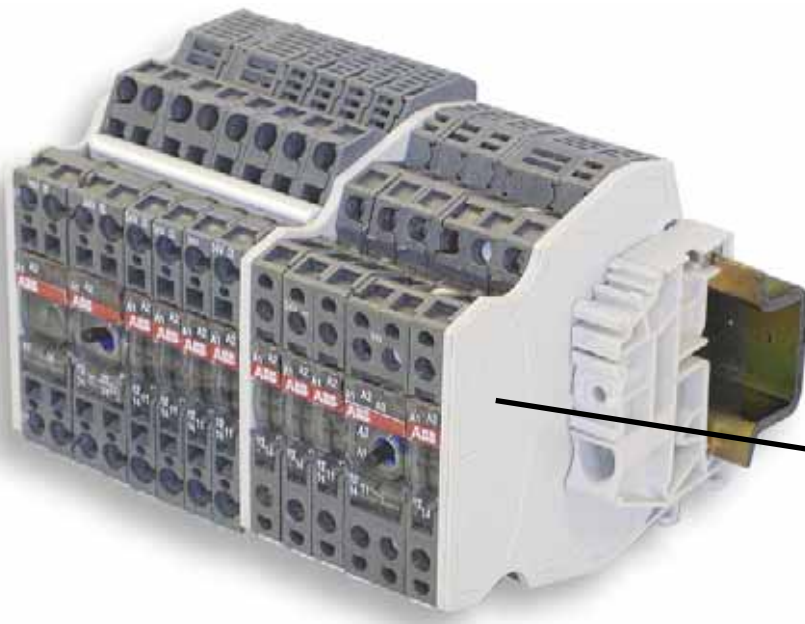
FUNCTIONNING STATUS

Functionning display through a green Led.



JUMPER BAR

Same jumper bar for «Screw clamp» or «Spring clamp» technologies. Independent of wire clamp and snap on held in place. Use of end sections is required to preserve IP20 protection.



EASY WIRING

DIA. 3,5 mm screwdriver self-gripped into spring



DISTRIBUTION BLOCK

«Screw clamp» or «Spring clamp» technologies. With protection connected to the rail.

For polarity distribution on demand : coils and/or contacts.



MESUREMENTS - TESTS

Holes for holding DIA. 2 mm test plugs of the measurement apparatus in position.



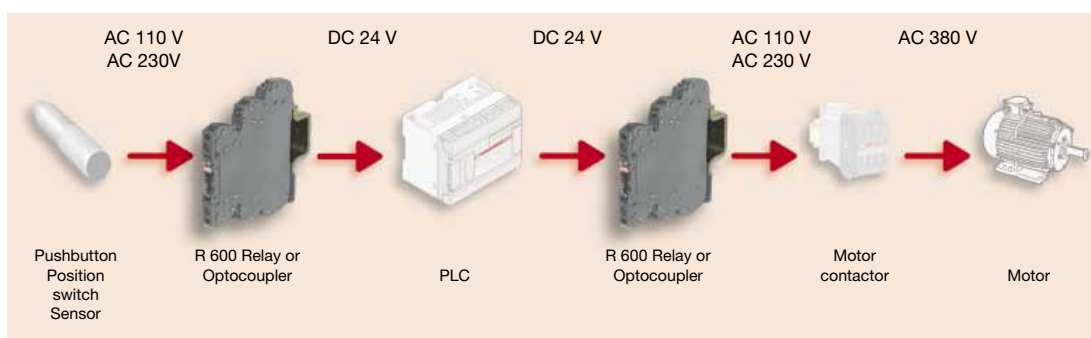
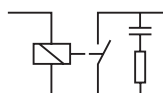


ABB PROVIDES A FULL SOLUTION FROM SENSOR TO MOTOR

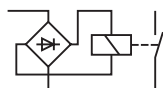
SAVING

CONTACT LIFE INCREASED



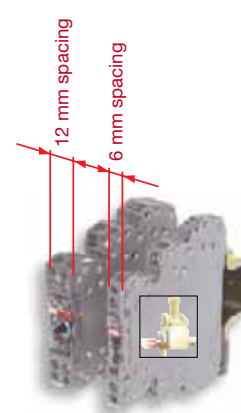
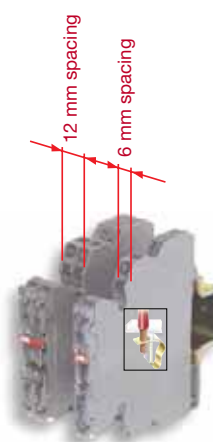
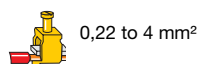
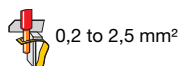
Contact protection
through RC circuit

ONLY ONE PART NUMBER AC/DC



DIMENSIONS

Compact block in «spring clamp» or «screw clamp» versions with 6 mm and 12 mm spacings.



SAFETY

SEPARATION AND IDENTIFICATION OF SEVERAL VOLTAGES

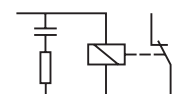
Separator end sections.

IP20 PROTECTION

NO DISTURBANCE PRODUCTION

Choice of high quality electronic components
to reduce leakage currents (< 50 µA).

IMMUNITY

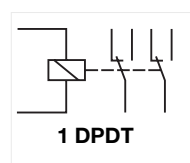
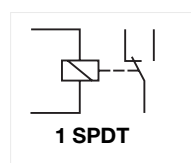
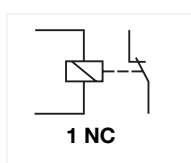
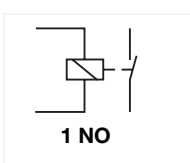


Leakage current
protection

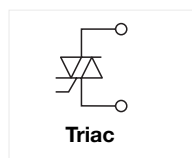
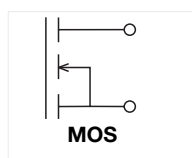
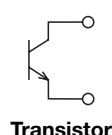
ACCORDANCE TO STANDARDS :



PERFORMANCES



ADAPTABILITY TO ANY APPLICATION TYPE



THE PLUS IN OUR PERFORMANCES

- Triac output 400 VAC (50 Hz / 60 Hz)
- Relay output 12 A in 12 mm spacing
- 100 part numbers
- Screw clamp or spring clamp connections