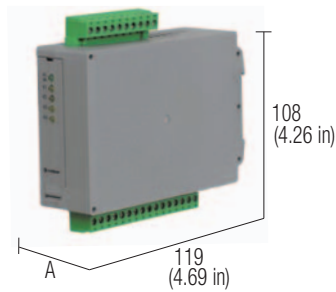
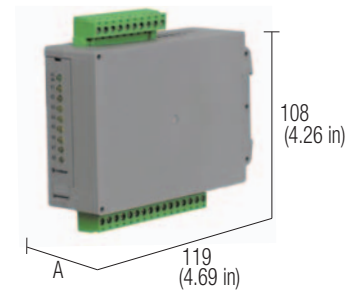


# Super compact 24 Vac/dc relay modules universal control voltage

- 3 kV I/O isolation
- 1 kV isolation between output contact
- Fast connection with pluggable terminals
- DC and AC control voltage
- Positive or negative control voltage



A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

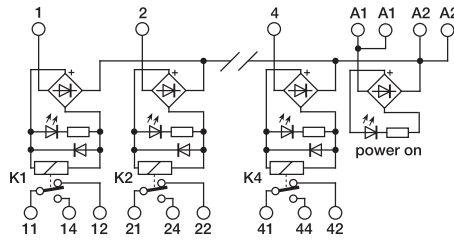


A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

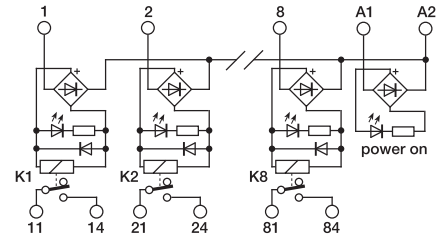
## NOTES

The height dimension includes 35 mm DIN rail.  
 (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.  
**CR4-1** and **CRE4-1**: relay module with SPDT, inputs and outputs with pluggable terminals.  
**CR8-1** and **CRE8-1**: 8 relay module with SPST (NO), inputs and outputs with pluggable terminals.

## BLOCK DIAGRAM



## BLOCK DIAGRAM



## VERSIONS

Pluggable relay  
 Fixed relay

Cat. No. XCRE41

Cat. No. XCR4

CRE4-1

CR4-1

Cat. No. XCRE81

Cat. No. XCR81

CRE8-1

CR8-1

## INPUT TECHNICAL DATA

|                           |                                    |
|---------------------------|------------------------------------|
| Rated voltage             | 24 Vac/dc $\pm 10\%$               |
| Rated current (1 channel) | 16 mA $\pm 10\%$                   |
| Turn ON time              | 7 ms                               |
| Turn OFF time             | 3 ms                               |
| Protection circuit        | damping diode and bridge rectifier |

|                           |                                    |
|---------------------------|------------------------------------|
| Rated voltage             | 24 Vac/dc $\pm 10\%$               |
| Rated current (1 channel) | 16 mA $\pm 10\%$                   |
| Turn ON time              | 7 ms                               |
| Turn OFF time             | 3 ms                               |
| Protection circuit        | damping diode and bridge rectifier |

## OUTPUT TECHNICAL DATA

|                             |                       |
|-----------------------------|-----------------------|
| Type and number of contacts | SPDT AgNiO per 4 relé |
| Nominal load (resistive)    | 8 A / 250 Vac         |
| Current breaking power      | 2000 VA               |
| Current of the fuse max.    | —                     |

|                             |                      |
|-----------------------------|----------------------|
| Type and number of contacts | SPST(NO) per 8 relay |
| Nominal load (resistive)    | 8 A / 250 Vac        |
| Current breaking power      | 2000 VA              |
| Current of the fuse max.    | —                    |

## GENERAL TECHNICAL DATA

|   |   |
|---|---|
| Operating temperature range             | -10...+50°C   |
| Coil/contact isolation                  | 2.5 kVac / 60 s                                     |
| Isolation between output terminals      | 1 kVac / 60 s (between open contact)                |
| Protection degree                       | IP 20 IEC 529, EN60529                              |
| Overtoltage category / Pollution degree | III / 2   |
| Reference Standard                      | IEC 664-1, DIN VDE 0110.1                           |
| Status display                          | green LED / yellow LED                              |
| Connection terminal                     | 2.5 mm <sup>2</sup> fixed screw type                |
| Housing material                        | UL94V-0 plastic material                            |
| Approx. weight                          | 143 g (5.05 oz) (180 g [6.35 oz] pluggable version) |
| Mounting information                    | vertical on rail adjacent without gap               |

|   |   |
|---|---|
| Operating temperature range             | -10...+50°C   |
| Coil/contact isolation                  | 3 kVac / 60 s                                       |
| Isolation between output terminals      | 1 kVac / 60 s (between open contact)                |
| Protection degree                       | IP 20 IEC 529, EN60529                              |
| Overtoltage category / Pollution degree | III / 2   |
| Reference Standard                      | IEC 664-1, DIN VDE 0110.1                           |
| Status display                          | green LED / yellow LED                              |
| Connection terminal                     | 2.5 mm <sup>2</sup> fixed screw type                |
| Housing material                        | UL94V-0 plastic material                            |
| Approx. weight                          | 199 g (7.02 oz) (250 g [8.83 oz] pluggable version) |
| Mounting information                    | vertical on rail adjacent without gap               |

## MOUNTING ACCESSORIES

|   |  |
|---|--|
| Mounting rail type according to IEC60715/TH35 | PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB |
| Mounting rail type according to IEC60715/G32  | PR/DIN/AC - PR/DIN/AS - PR/DIN/AL        |
| Replacement relay (1)                         | Cat. No. 8904042                         |
| Screw type jumper                             | —  |
| red   | —  |
| white   | —  |
| blue  | —  |

|   |  |
|---|--|
| Mounting rail type according to IEC60715/TH35 | PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB |
| Mounting rail type according to IEC60715/G32  | PR/DIN/AC - PR/DIN/AS - PR/DIN/AL        |
| Replacement relay (1)                         | Cat. No. 8904042                         |
| Screw type jumper                             | —  |
| red   | —  |
| white   | —  |
| blue  | —  |