

Single relay modules quick selection table

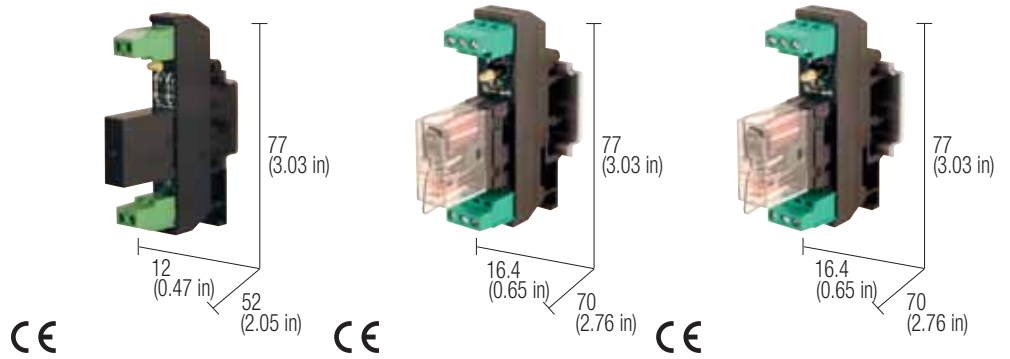
These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

Number of relays	Input rated voltage	Output		Notes	Type	Cat. No.	Page
		type / no. of contacts	rated current				
1	12 Vdc	SPDT	16A	(2)	RF1012D	XRF1012D	102
1	12 Vdc	SPDT	10A	(1)	CM1C012	XCM1C012	103
1	12 Vdc	DPDT	5A	(1)	CM2C012	XCM2C012	104
1	12 Vdc	4PDT	3A	(1)	CM4C012	XCM4C012	105
1	12 Vac	SPDT	10A	(1)	CM1A012	XCM1A012	106
1	12 Vac	DPDT	5A	(1)	CM2A012	XCM2A012	107
1	12 Vac/dc	SPDT	6A	(1)	CWRE7-0848	X766848	110
1	24 Vdc	SPST(NO)	5A	(2)	RFA024D	XRFA024D	101
1	24 Vdc	SPDT	16A	(1)	RE1024D	XRE1024D	101
1	24 Vdc	SPDT	16A	(2)	RF1024D	XRF1024D	101
1	24 Vdc	SPDT	12A	(1)	CM1C024	XCM1C024	103
1	24 Vdc	SPDT	12A	(1)	RE1824D	XRE1824D	101
1	24 Vdc	SPDT	12A	(2)	RF1824D	XRF1824D	101
1	24 Vdc	DPDT	8A	(1)	CM2C024	XCM2C024	104
1	24 Vdc	4PDT	3A	(1)	CM4C024	XCM4C024	105
1	24 Vac/dc	SPDT	6A	(1)	CWRE7-0842	X766842	110
1	24 Vac/dc	SPDT	6A	(2) (3)	CKR16	XCKR16	109
1	24 Vac/dc	DPDT	8A	(1)	RE2024D	XRE2024D	102
2	24 Vac/dc	DPST(NO)	5A	(2)	CKR25	XCKR25	109
1	24 Vac	SPDT	12A	(1)	CM1A024	XCM1A024	106
1	24 Vac	DPDT	8A	(1)	CM2A024	XCM2A024	107
1	48 Vdc	SPDT	10A	(1)	CM1C048	XCM1C048	103
1	48 Vdc	DPDT	5A	(1)	CM2C048	XCM2C048	104
1	48 Vac/dc	SPDT	6A	(1)	CWRE7-0845	X766845	110
1	110 Vdc	SPDT	10A	(1)	CM1C110	XCM1C110	103
1	110 Vdc	DPDT	5A	(1)	CM2C110	XCM2C110	104
1	110...120 Vac/dc	SPDT	6A	(1)	CWRE7-0846	X766846	110
1	120 Vac	SPDT	10A	(1)	CM1A120	XCM1A120	106
1	120 Vac	DPDT	5A	(1)	CM2A120	XCM2A120	107
1	230 Vac	SPDT	6A	(1)	CWRE7-0847	X766847	110
1	230 Vac	SPDT	10A	(1)	CM1A230	XCM1A230	106
1	230 Vac	DPDT	5A	(1)	CM2A230	XCM2A230	107

Notes

- (1) version with pluggable relay
- (2) version with fixed relay
- (3) protection fuse on the contact
- (4) without LED and protection diode

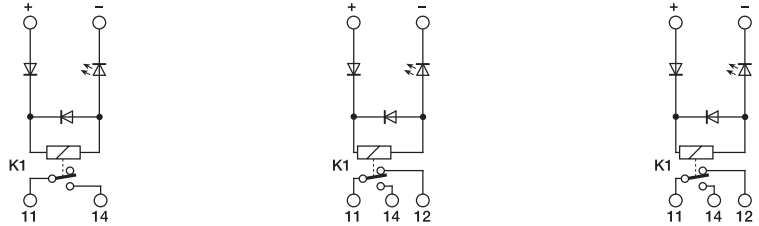
24 Vdc SPDT single relay R series



NOTES

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical
- (2) Version available upon request

BLOCK DIAGRAM



VERSIONS

Pluggable relay
Fixed relay

Cat. No. XRFA024D

Cat. No. XR_1824D

Cat. No. XR_1024D

—
RFA024D

RE1824D
RF1824D

RE1024D
RF1024D

INPUT TECHNICAL DATA

Rated voltage
Rated current (1 channel)
Turn ON time
Turn OFF time
Protection circuit

24 Vdc ± 10%
15 mA ± 10%
15 ms
5 ms
damping & polarity protection diode

24 Vdc ± 10%
22 mA ± 10%
15 ms
5 ms
damping & polarity protection diode

24 Vdc ± 10%
27 mA ± 10%
15 ms
5 ms
damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts
Nominal current (resistive load)
Current breaking power
Current of the fuse max.

SPST(NO) AgSnO₂
5 A / 250 Vac
5 A
—

SPDT AgSnO₂
12 A / 250 Vac
12 A
—

SPDT AgSnO₂
16 A / 250 Vac
16 A
—

GENERAL TECHNICAL DATA

Operating temperature
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category / pollution degree
Reference Standard
Status display
Connection terminals
Housing material
Approx. weight
Mounting information

−10...+50°C
2.5 kVac / 60 s
0,5 kVac / 60 s (between open contact)
IP 00 IEC529, EN60529
III / 2
IEC 664-1, DIN VDE 0110.1
green LED
2.5 mm² fixed screw type AWG26-14
UL94V-0 plastic material
30 g (1.07 oz)
vertical on rail adjacent without gap

−10...+50°C
2.5 kVac / 60 s
0,5 kVac / 60 s (between open contact)
IP 00 IEC529, EN60529
III / 2
IEC 664-1, DIN VDE 0110.1
green LED
2.5 mm² fixed screw type AWG26-14
UL94V-0 plastic material
44 g (1.55 oz)
vertical on rail adjacent without gap

−10...+50°C
2.5 kVac / 60 s
0,5 kVac / 60 s (between open contact)
IP 00 IEC529, EN60529
III / 2
IEC 664-1, DIN VDE 0110.1
green LED
2.5 mm² fixed screw type AWG26-14
UL94V-0 plastic material
44 g (1.55 oz)
vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
PR/DIN/AC - PR/DIN/AS - PR/DIN/AL

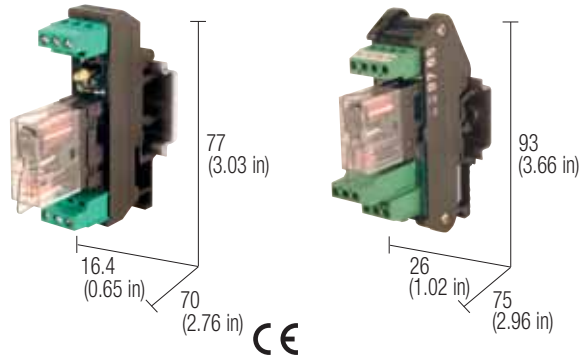
Replacement relay (1)
Screw type jumper black

Cat. No. 8904000
—

Cat. No. 8904001
—

Cat. No. 8904058
—

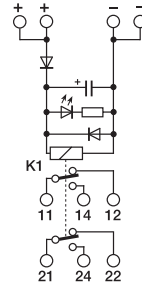
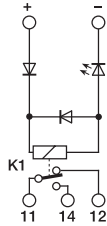
24 Vdc SPDT single relay R series



NOTES

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical
- (2) Version available upon request

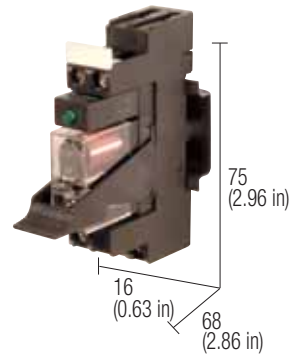
BLOCK DIAGRAM



VERSIONS	Cat. No. XRF1012D	Cat. No. XRE2024D
Pluggable relay	-	RE2024D
Fixed relay	RF1012D	-
INPUT TECHNICAL DATA		
Rated voltage	12 Vdc ± 10%	24 Vac / dc ± 10%
Rated current (1 channel)	44 mA ± 10%	22 mA ± 10%
Turn ON time	15 ms	15 ms
Turn OFF time	5 ms	5 ms
Protection circuit	damping & polarity protection diode	damping & polarity protection diode
OUTPUT TECHNICAL DATA		
Type and number of contacts	SPDT AgSnO ₂	DPDT AgSnO ₂
Nominal current (resistive load)	16 A / 250 Vac	8 A / 250 Vac
Current breaking power	16 A	8 A
Current of the fuse max.	-	-
GENERAL TECHNICAL DATA		
Operating temperature	-10...+50°C	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s	2.5 kVac / 60 s
Isolation between output terminals	0,5 kVac / 60 s (between open contact)	0,5 kVac / 60 s (between open contact)
Protection degree	IP 20 IEC529, EN60529	IP 00 IEC529, EN60529
Overtoltage category / pollution degree	III / 2	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1	IEC 664-1, DIN VDE 0110.1
Status display	green LED	green LED
Connection terminals	2.5 mm ² fixed screw type AWG26-14	2.5 mm ² fixed screw type AWG26-14
Housing material	UL94V-0 plastic material	UL94V-0 plastic material
Approx. weight	44 g (1.55 oz)	76 g (2.68 oz)
Mounting information	vertical on rail adjacent without gap	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. 8904032	Cat. No. 8904002
Screw type jumper	black	black

Single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

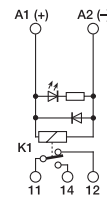


NOTES

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.
- (2) On request, there are available versions without signalling and protection circuit; for the order, please add the suffix "Z" to the item code (for example: XCM1C024Z).
- (3) On request, there are available versions with gold-plated contact; for the order, please add the suffix "U" to the item code (for example: XCM1C024U).

BLOCK DIAGRAM



VERSIONS

12 Vdc
24 Vdc
48 Vdc
110 Vdc

Cat. No. XCM1C012	Cat. No. XCM1C024	Cat. No. XCM1C048	Cat. No. XCM1C110
CM1C012	CM1C024	CM1C048	CM1C0110

INPUT TECHNICAL DATA

Rated voltage
Rated current (1 channel)
Turn ON time
Turn OFF time
Protection circuit

12 Vdc ±10%	24 Vdc ±10%	48 Vdc ±10%	110 Vdc ±10%
44 mA ±10%	22 mA ±10%	12 mA ±10%	11 mA ±10%
15 ms	15 ms	15 ms	15 ms
5 ms	5 ms	5 ms	20 ms

damping diode (2)

OUTPUT TECHNICAL DATA

Type and number of contacts
Nominal current (resistive load)
Current breaking power
Current of the fuse max.

SPDT AgSnO₂ (3)
12 A / 250 Vac
12 A
—

GENERAL TECHNICAL DATA

Operating temperature range
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category/Pollution degree
Reference Standard
Status display
Connection terminal
Housing material
Approx. weight
Mounting information

−10...+50°C
4 kVac / 60 s
1 kVac / 60 s (between open contact)
IP 20 IEC 529, EN60529
III / 2
IEC 664-1, DIN VDE 0110.1
green LED (2)
2.5 mm² fixed screw type AWG26-14
UL94V-0 plastic material
54 g (1.90 oz)
vertical on rail adjacent without gap or panel with screw

MOUNTING ACCESSORIES

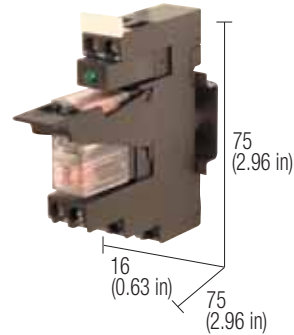
Mounting rail type according to IEC60715/TH35-7.5
Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper black
white
blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

Cat. No. 8904039	Cat. No. 8904001	Cat. No. 8904008	Cat. No. 8904047
	Cat. No. XCMB16B		

DPDT single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

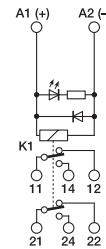


NOTES

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.

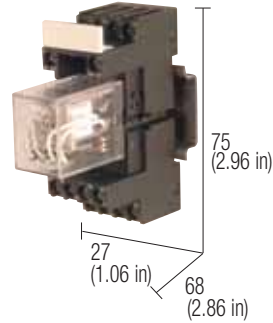
BLOCK DIAGRAM



VERSIONS	Cat. No. XCM2C012	Cat. No. XCM2C024	Cat. No. XCM2C048	Cat. No. XCM2C110
12 Vdc	CM2C012			
24 Vdc		CM2C024		
48 Vdc			CM2C048	
110 Vdc				CM2C0110
INPUT TECHNICAL DATA				
Rated voltage	12 Vdc ±10%	24 Vdc ±10%	48 Vdc ±10%	110 Vdc ±10%
Rated current (1 channel)	44 mA ±10%	22 mA ±10%	24 mA ±10%	11 mA ±10%
Turn ON time	15 ms	15 ms	15 ms	15 ms
Turn OFF time	5 ms	5 ms	5 ms	20 ms
Protection circuit	damping diode			
OUTPUT TECHNICAL DATA				
Type and number of contacts	DPDT AgSnO ₂			
Nominal current (resistive load)	8 A / 250 Vac			
Current breaking power	8 A			
Current of the fuse max.	—			
GENERAL TECHNICAL DATA				
Operating temperature range	-10...+50°C			
Coil/contact isolation	4 kVac / 60 s			
Isolation between output terminals	1 kVac / 60 s (between open contact)			
Protection degree	IP 20 IEC 529, EN60529			
Overvoltage category/Pollution degree	III / 2			
Reference Standard	IEC 664-1, DIN VDE 0110.1			
Status display	green LED			
Connection terminal	2.5 mm ² fixed screw type AWG26-14			
Housing material	UL94V-0 plastic material			
Approx. weight	67 g (2.37 oz)			
Mounting information	vertical on rail adjacent without gap or panel with screw			
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB			
Mounting rail type according to IEC60715/G32	—			
Replacement relay (1)	Cat. No. 8904040	Cat. No. 8904002	Cat. No. 8904009	Cat. No. 8904054
Screw type jumper		Cat. No. XCMB16B		

4PDT single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

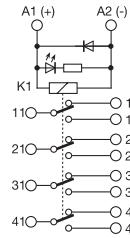


NOTES

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.

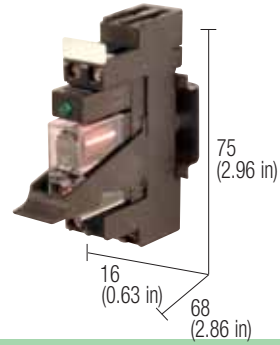
BLOCK DIAGRAM



VERSIONS	Cat. No. XCM4C012	Cat. No. XCM4C024	Cat. No. XCM1C048	Cat. No. XCM1C110
12 Vdc	CM4C012			
24 Vdc		CM4C024		
48 Vdc			—	
110 Vdc				—
INPUT TECHNICAL DATA				
Rated voltage	12 Vdc $\pm 10\%$	24 Vdc $\pm 10\%$		
Rated current (1 channel)	75 mA $\pm 10\%$	38 mA $\pm 10\%$		
Turn ON time	20 ms	20 ms		
Turn OFF time	20 ms	20 ms		
Protection circuit			damping diode	
OUTPUT TECHNICAL DATA				
Type and number of contacts			4PDT AgSnO ₂	
Nominal current (resistive load)			3 A / 250 Vac	
Current breaking power			3 A	
Current of the fuse max.			—	
GENERAL TECHNICAL DATA				
Operating temperature range			-10...+50°C	
Coil/contact isolation			4 kVac / 60 s	
Isolation between output terminals			1 kVac / 60 s (between open contact)	
Protection degree			IP 20 IEC 529, EN60529	
Overvoltage category/Pollution degree			III / 2	
Reference Standard			IEC 664-1, DIN VDE 0110.1	
Status display			green LED	
Connection terminal			2.5 mm ² fixed screw type AWG26-14	
Housing material			UL94V-0 plastic material	
Approx. weight				
Mounting information			vertical on rail adjacent without gap or panel with screw	
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5			PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	
Mounting rail type according to IEC60715/G32			—	
Replacement relay (1)	Cat. No. 8904018	Cat. No. 8904030		
Screw type jumper			Cat. No. XCMB27B	
			—	
			—	

Single relay AC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

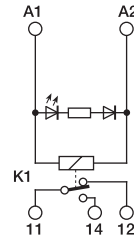


NOTES

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.

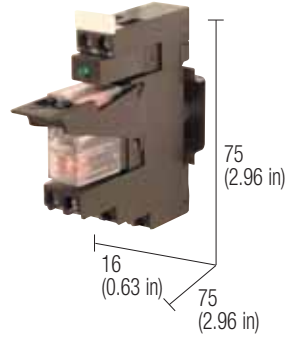
BLOCK DIAGRAM



VERSIONS	Cat. No. XCM1A012	Cat. No. XCM1A024	Cat. No. XCM1A120	Cat. No. XCM1A230
12 Vdc	CM1A012			
24 Vdc		CM1A024		
120 Vdc			CM1A120	
230 Vdc				CM1A230
INPUT TECHNICAL DATA				
Rated voltage	12 Vac $\pm 10\%$	24 Vac $\pm 10\%$	120 Vac $\pm 10\%$	230 Vac $\pm 10\%$
Rated current (1 channel)	95 mA $\pm 10\%$	48 mA $\pm 10\%$	10.5 mA $\pm 10\%$	6 mA $\pm 10\%$
Turn ON time	15 ms	15 ms	15 ms	15 ms
Turn OFF time	10 ms	10 ms	10 ms	10 ms
Protection circuit	—			
OUTPUT TECHNICAL DATA				
Type and number of contacts	SPDT AgSnO ₂			
Nominal current (resistive load)	12 A / 250 Vac			
Current breaking power	12 A			
Current of the fuse max.	—			
GENERAL TECHNICAL DATA				
Operating temperature range	-10...+50°C			
Coil/contact isolation	4 kVac / 60 s			
Isolation between output terminals	1 kVac / 60 s (between open contact)			
Protection degree	IP 20 IEC 529, EN60529			
Overvoltage category/Pollution degree	III / 2			
Reference Standard	IEC 664-1, DIN VDE 0110.1			
Status display	green LED			
Connection terminal	2.5 mm ² fixed screw type AWG26-14			
Housing material	UL94V-0 plastic material			
Approx. weight	54 g (1.91 oz)			
Mounting information	vertical on rail adjacent without gap or panel with screw			
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5				
Mounting rail type according to IEC60715/G32				
Replacement relay	(1)			
Screw type jumper	black			
	white			
	blue			
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB				
	Cat. No. 8904016	Cat. No. 8904048	Cat. No. 8904049	Cat. No. 8904050
		XCMB16B		

DPDT single relay AC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

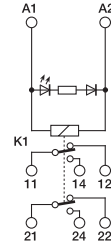


NOTES

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.

BLOCK DIAGRAM



VERSIONS

- 12 Vac
- 24 Vac
- 120 Vac
- 230 Vac

Cat. No. XCM2A012	Cat. No. XCM2A024	Cat. No. XCM2A120	Cat. No. XCM2A230
CM2A012	CM2A024	CM2A120	CM2A230

INPUT TECHNICAL DATA

Rated voltage	12 Vac $\pm 10\%$	24 Vac $\pm 10\%$	120 Vac $\pm 10\%$	230 Vac $\pm 10\%$
Rated current (1 channel)	95 mA $\pm 10\%$	48 mA $\pm 10\%$	10.5 mA $\pm 10\%$	6 mA $\pm 10\%$
Turn ON time	15 ms	15 ms	15 ms	15 ms
Turn OFF time	10 ms	10 ms	10 ms	10 ms
Protection circuit	—			

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgSnO ₂			
Nominal current (resistive load)	8 A / 250 Vac			
Current breaking power	8 A			
Current of the fuse max.	—			

GENERAL TECHNICAL DATA

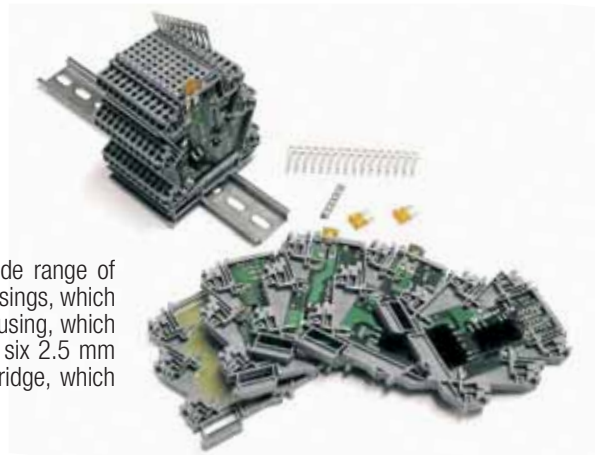
Operating temperature range	-10...+50°C			
Coil/contact isolation	4 kVac / 60 s			
Isolation between output terminals	1 kVac / 60 s (between open contact)			
Protection degree	IP 20 IEC 529, EN60529			
Overvoltage category/Pollution degree	III / 2			
Reference Standard	IEC 664-1, DIN VDE 0110.1			
Status display	green LED			
Connection terminal	2.5 mm ² fixed screw type AWG26-14			
Housing material	UL94V-0 plastic material			
Approx. weight	67 g (2.37 oz)			
Mounting information	vertical on rail adjacent without gap or panel with screw			

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB			
Mounting rail type according to IEC60715/G32	—			
Replacement relay (1)	Cat. No. 8904017	Cat. No. 8904055	Cat. No. 8904056	Cat. No. 8904057
Screw type jumper	black	Cat. No. XCMB16B	—	—
	white	—	—	—
	blue	—	—	—

CK system interface

The series is a collection of interfaces for sensors and actuators, is composed by a wide range of electromechanical relay and solid state relay modules and passive interfaces in modular housings, which are only 6 mm wide thus saving valuable space. All products are mounted inside the CK housing, which is also available for use as a housing for custom. The CK housing can be equipped with six 2.5 mm spring-clamp terminals and four contacts for the insertion of a PTC parallel connection bridge, which provides for quick and easy circuit bridging and saves space and harness time.



The product range is currently composed by:

- Single electromechanical relay with 6 A/250 Vac SPDT protected with replaceable fuse, status Led display on front panel, AC/DC input and positive or negative common on relay coil.
- Double electromechanical relay with 5 A/250 Vac SPST (NO), two status LED displays on front panel, AC/DC input and positive or negative common on relay coil.
- Single solid state relay for common negative load, 5 A /48 Vdc output current, protected with replaceable fuse, status LED display on front panel and positive or negative common on input.
- Double solid state relay suitable for 12-24 Vdc 2.5 A loads, status LED display on front panel and positive or negative common of the input and output as well.
- Diode-holder modules with common anode (CK...AC) or common cathode (CK...CC).
- Lamp and LED test modules.
- Supply connection and distribution modules with LED display.

Composition of an interface with the CK System:

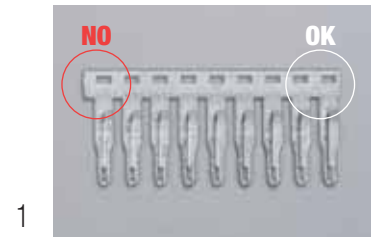
- The required modules must be selected and mounted on the DIN rail.
- The common poles of inputs and outputs can be connected in parallel using the fast connection bridges **PTC/CK/42**.
- For the connection of inputs and outputs of the relay module interface, we recommend to use the **CKF** supply distribution module: it allows to connect and distribute the feeding potential to inputs and outputs on all adjacent modules; the CKF module can be mounted as first module, or even better, in the middle position of the interfaces assembly, to divide 50+50% the current on the bridge and to reduce voltage drop and heating; the CKF- is available with LED for ON display, and is equipped with four 2.5 mm / AWG 26 ÷ 14 / 24 A rated spring-clamp terminals - input and output.
- In order to assure the IP XXB protection degree, the last module must be protected and insulated using the **CK/PT** end section.
- Main technical data and BLOCK DIAGRAM are printed on one side of each module; for individual terminal block marking, CNU/8 marking tags are available; CNU/8 marking tags are available in blank format for pen or plotter marking, or with the Cabur Jet marking printer.
- If the input and output power supply cables of the interface assembly are directly connected to eg. the first module, two cables must be connected on a single terminal block (feeding wire and load wire) forcing to reduce the cross-section of each conductor to less than 2,5 mm²; consequently, this means a current and a reduction of the total number of relay modules that can be fed; the problem can be solved by using the CKF feeder distribution module as described in the third point.

Easy Bridge system

The fast connection bridge **PTC/CK/42** has 42 poles, and a rated current of 32 A; WARNING: the total current is limited by the rated current of the spring-clamp terminal block (24 A): if a PTC/CK serves 10 relays, a rated current of 2,4 A can be distributed on to each relay.

The use of PTC/CK bridges is simple and cost effective; the following instructions must be followed:

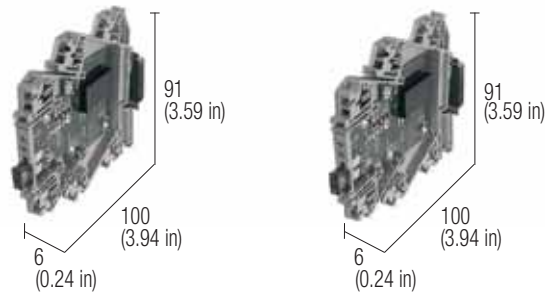
- after having cut the PTC/CK/42-pole bar according to required number of poles, in order to maintain the IPXXB protection degree the bar must be sheared in proximity of the end poles (see pictures 1 and 2);
- insert the jumper in the slot of the CK terminals (see picture 3);
- by using the blade of a screwdriver, the PTC bridge must be pushed down until it snaps into the female contacts; in case of long jumpers, the operation shall be started by pushing the bridge in the middle, then gradually on left / right sides; the jumper will then result completely IPXXB insulated (see picture 4);
- to remove the jumper, the blade of a screwdriver shall be inserted into the slot provided in the upper side of the PTC bridge, then lifted up and finally extracted; in case of long jumpers, the bridge shall be lifted in the middle, then gradually on left / right sides (pictures 5 and 6).



24 Vdc relay modules

CKR series

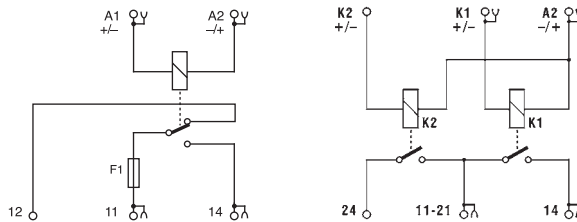
- Built-in replaceable contact protection fuse
- AC/DC common negative or positive input
- Status LED display, reverse polarity protection, crow-bar diode
- 6 mm wide
- Plug-in jumper available



NOTES

- (1) The contact rated voltage is 250 Vac; max operating voltage of the contact of the module is 50 Vac-Vdc, limited by the voltage ratings of the adopted type of fuse, which is rated for ≤ 50 Vac-75 Vdc SELV voltages; WARNING: if used with higher voltage, it does not guarantee breaking power and thus safety, and IP protection degree is lowered to IP 00; fuses with higher current ratings are not allowed and do not protect the contact against short circuit and overcurrents
- (2) Version available upon request.
- (3) In order to assure the IP20 protection degree, the last module must be protected and insulated using the CK/PT end section.

BLOCK DIAGRAM



VERSIONS

- 1 channel
- 2 channels

Cat. No. XCKR16

CKR16

Cat. No. XCKR25

—
CKR25

INPUT TECHNICAL DATA

- Rated voltage
- Rated current (1 channel)
- Turn ON time
- Turn OFF time
- Protection circuit

- 24 Vac/dc $\pm 10\%$**
- ≤ 15 mA $\pm 10\%$ @ 24 Vdc
- 5 ms
- 10 ms
- bridge rectifier

- 24 Vac/dc $\pm 10\%$**
- ≤ 13 mA $\pm 10\%$ @ 24 Vdc
- 5 ms
- 10 ms
- bridge rectifier

OUTPUT TECHNICAL DATA

- Type and number of contacts
- Nominal current (resistive load)
- Current breaking power
- Current of the fuse max.

- SPDT AgSnO₂
- 6 A / 250 Vac
- 30 A**
-

- 2PST (NO) AgSnO₂
- 5 A / 250 Vac
- 30 A**
-

GENERAL TECHNICAL DATA

- Operating temperature
- Coil/contact isolation
- Isolation between output terminals
- Protection degree
- Overtoltage category / pollution degree
- Reference Standard
- Status display
- Connection terminals
- Housing material
- Approx. weight
- Mounting information
- Mounting information

- 20...+60°C
- 3 kVac / 60 s
- IP 20 IEC529, EN60529
- II / 2
- IEC 664-1, DIN VDE 0110.1
- green LED
- 2.5 mm² AWG26-14 fixed spring type
- polyamide UL94V-0
- 40 g (1.41 oz)
- vertical on rail adjacent without gap

- 20...+60°C
- 3 kVac / 60 s
- IP 00 IEC529, EN60529
- II / 2
- IEC 664-1, DIN VDE 0110.1
- green LED
- 2.5 mm² AWG26-14 fixed spring type
- polyamide UL94V-0
- 43 g (1.52 oz)
- vertical on rail adjacent without gap

ACCESSOIRES DE MONTAGE

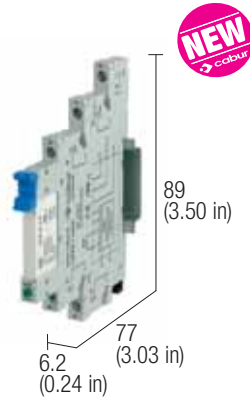
- Mounting rail type according to IEC60715/TH35
- Mounting rail type according to IEC60715/G32
- Replacement relay (1)
- Plug-in jumper —
- Marking tags blank
- End plate

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

-
- Cat. No. PTCK42 (42 poles)
- Cat. No. NU0851
- Cat. No. XCKPT

Relay modules AC/DC input series CWRE

- Pluggable relay
- Status LED display
- 6.2 mm wide
- Plug-in jumper available



NOTES

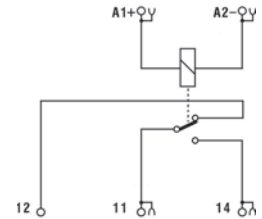
The height dimension includes 35 mm DIN rail.

- (1) Version available upon request; for information call our sales department, local agent or representative.
- (2) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

APPLICAZIONI

The CWRE series is suitable for the commutation of signals and is equipped with a pull-out relay to make the maintenance operations easy. Furthermore this series offers the possibility to execute the parallel on both the input and output side by the means of a proper comb jumper.

BLOCK DIAGRAM



VERSIONS	
12 Vac/dc	
24Vac/dc	
48 Vac/dc	(1)
115 Vac/dc	
230 Vac/dc	
INPUT TECHNICAL DATA	
Rated voltage	
Rated current (1 channel)	
Turn ON time	
Turn OFF time	
Protection circuit	
OUTPUT TECHNICAL DATA	
Type and number of contacts	
Nominal current (resistive load)	
Current breaking power	
Current of the fuse max.	
GENERAL TECHNICAL DATA	
Operating temperature	
Coil/contact isolation	
Isolation between output terminals	
Protection degree	
Overvoltage category / pollution degree	
Reference Standard	
Status display	
Connection terminals	
Housing material	
Approx. weight	
Mounting information	
MOUNTING ACCESSORIES	
Mounting rail type according to IEC60715/TH35-7.5	
Mounting rail type according to IEC60715/G32	
Replacement relay	(2)
Plug-in jumper	black white blue

Cat. No. X766848	Cat. No. X766842	Cat. No. X766845	Cat. No. X766846	Cat. No. X766847
CWRE7-0848				
	CWRE7-0842			
		CWRE7-0845 (1)		
			CWRE7-0846	
				CWRE7-0847
12 Vac/dc ±10%	24 Vac/dc ±10%	48 Vac/dc ±10%	115 Vac/dc ±10%	230 Vac/dc ±10%
10 mA ±10%	7 mA ±10%	5 mA ±10%	4 mA ±10%	4 mA ±10%
8 ms	8 ms	7 ms	8 ms	8 ms
5 ms	5 ms	7 ms	13 ms	13 ms
bridge rectifier				
SPDT AgSnO ₂ (3) 6 A / 250 Vac ; 6 A / 30 Vdc				
DC 13: 24 V / 1A; 115V / 200 mA; 230 V / 100 mA				
—				
-40...+70°C				
4 kVac / 60 s				
1 kVac / 60 s (between open contact)				
IP 20 IEC 529, EN60529				
III / 2				
IEC 664.1, DIN VDE 0110.1				
green LED				
2.5 mm ² fixed screw type AWG26-14				
UL94V-0 plastic material				
35 g (1.23 oz)				
vertical on rail adjacent without gap				
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB				
—				
		Cat. No. 8904027		
—				
—				
CWBK7-0813 (Cat. No. X766813) (20 poli)				

Multiple relay modules quick selection table

These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

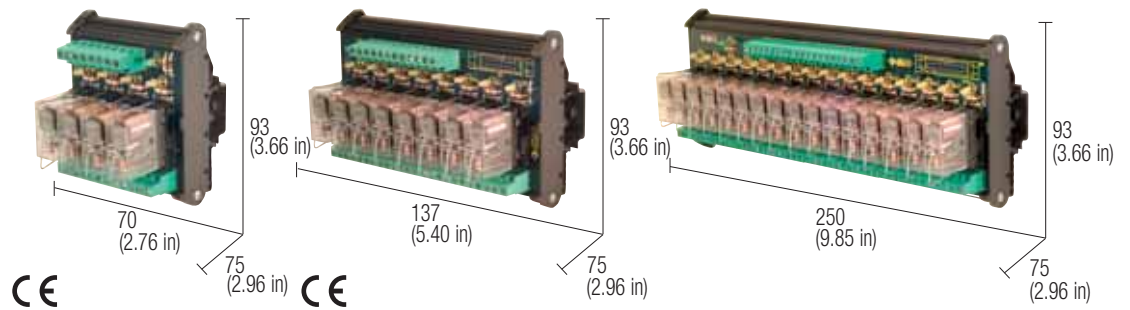
Number of relays	Input rated voltage	Output type / no. of contacts	Rated current	Notes	Type	Cat. No.	Page
4	24 Vdc	SPDT	12 A	(1) (4)	R41E24	XR041E24	113
8	24 Vdc	SPDT	12 A	(1) (4)	R81E24	XR081E24	113
16	24 Vdc	SPDT	12 A	(1) (4)	R161E24	XR161E24	113
4	24 Vac/dc	SPDT	12 A	(1) (6)	R41EAD	XR041EAD	114
8	24 Vac/dc	SPDT	12 A	(1) (6)	R81EAD	XR081EAD	114
16	24 Vac/dc	SPDT	12 A	(1) (6)	R161EAD	XR161EAD	114
4	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R41U24F	XR041U24F	115
8	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R81U24F	XR081U24F	115
16	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R161U24F	XR161U24F	115
4	24 Vdc	DPDT	8 A	(1) (4)	R42E24	XR042E24	116
8	24 Vdc	DPDT	8 A	(1) (4)	R82E24	XR082E24	116
16	24 Vdc	DPDT	8 A	(1) (4)	R162E24	XR162E24	116
4	24 Vac/dc	DPDT	8 A	(1) (6)	R42EAD	XR042EAD	118
8	24 Vac/dc	DPDT	8 A	(1) (6)	R82EAD	XR082EAD	118
16	24 Vac/dc	DPDT	8 A	(1) (6)	R162EAD	XR162EAD	118
8	24 Vac/dc	SPDT	12 A	(1) (6) (9) (10)	RMP081CM	XRMP081CM	119
4	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R41E11A	XR041E1A	120
8	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R81E11A	XR081E1A	120
16	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R161E11A	XR161E1A	120
4	230 Vac	SPDT	10 A	(1) (6)	R41E22A	XR041E2A	121
8	230 Vac	SPDT	10 A	(1) (6)	R81E22A	XR081E2A	121
16	230 Vac	SPDT	10 A	(1) (6)	R161E22A	XR161E2A	121
4	24 Vac/dc	SPDT	8 A	(2) (6)	CR4-1	XCR41	122
4	24 Vac/dc	SPDT	8 A	(1) (6)	CRE4-1	XCRE41	122
8	24 Vac/dc	SPST(NO)	8 A	(1) (6)	CRE8-1	XCRE81	122
8	24 Vac/dc	SPST(NO)	8 A	(2) (6)	CR8-1	XCR81	122
4	24 Vac/dc	DPDT	8 A	(2) (6)	CR4-2SC	XCR42SC	123
4	24 Vac/dc	DPDT	8 A	(1) (6)	CRE4-2SC	XCRE42SC	123

Note

- | | |
|---------------------------------------|---|
| (1) version with pluggable relay | (6) universal control voltage, negative DC command, positive DC, AC |
| (2) version with fixed relay | (7) with connector input command |
| (3) with socket but without relay | (8) with protection fuse on the relay contact |
| (4) negative common, positive command | (9) with test push button |
| (5) positive common, negative command | (10) with test switch |

24 Vdc SPDT relay modules negative common

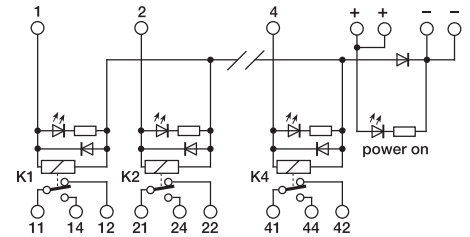
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay



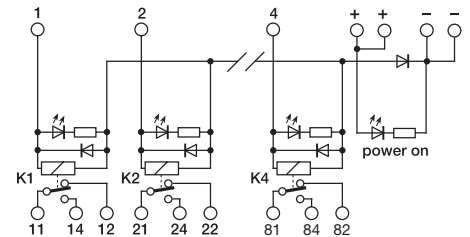
NOTES

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

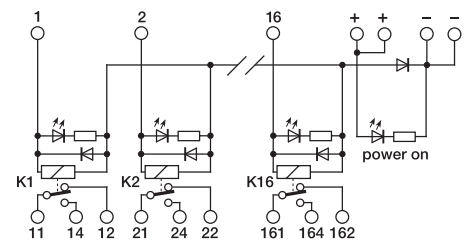
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

	Cat. No. XR041E24	Cat. No. XR081E24	Cat. No. XR161E24
4 relay module	R41E24		
8 relay module		R81E24	
16 relay module			R161E24

INPUT TECHNICAL DATA

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	22 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

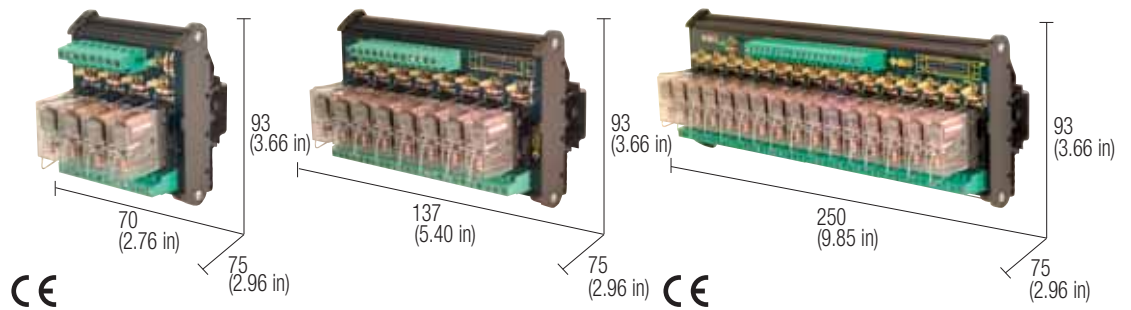
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 20 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	188 g (6.63 oz) 342 g (12.06 oz) 657 g (23.17 oz)
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. 8904001
Screw type jumper	red — white — blue —

24 Vdc SPDT relay modules positive common

- DC control voltage
- Positive control voltage
- Status LED display
- Pluggable relay

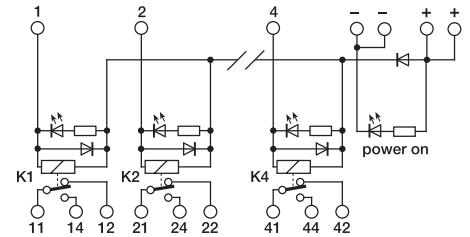


NOTES

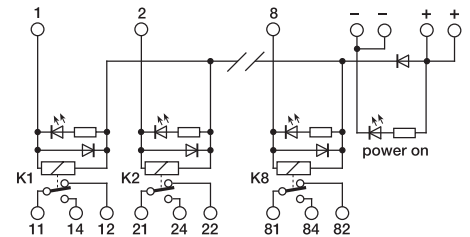
The height dimension includes 35 mm DIN rail.
 (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical

Article available until sell-out
 XR041E24P will be replaced by XR041EAD
 XR081E24P will be replaced by XR081EAD
 XR161E24P will be replaced by XR161EAD

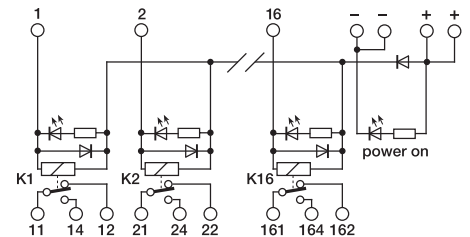
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

- 4 relay module
- 8 relay module
- 16 relay module

Cat. No. XR041E24P	Cat. No. XR081E24P	Cat. No. XR161E24P
R41E24P	R81E24P	R161E24P

INPUT TECHNICAL DATA

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	22 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

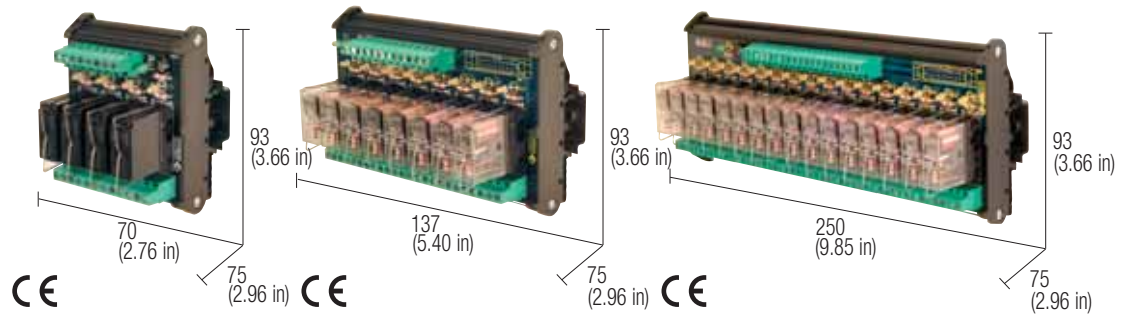
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	188 g (6.63 oz) 342 g (12.06 oz) 657 g (23.17 oz)
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. 8904001
Screw type jumper	red white blue

24 Vac/dc SPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay



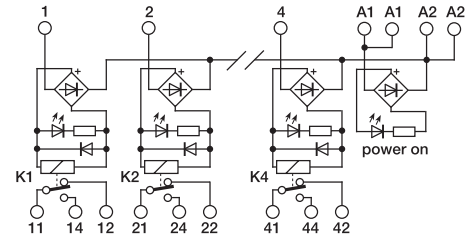
NOTES

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
 (2) Version available upon request.

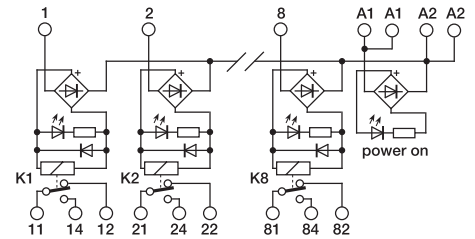
POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

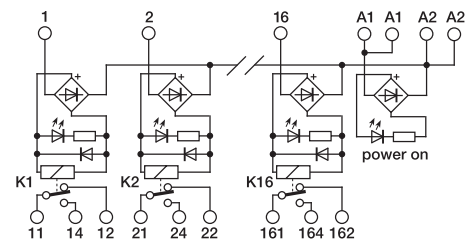
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

4 relay module

8 relay module

16 relay module

Cat. No. XR041EAD	Cat. No. XR081EAD	Cat. No. XR161EAD
R41EAD	R81EAD	R161EAD

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc \pm 10%
Rated current (1 channel)	22 mA \pm 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

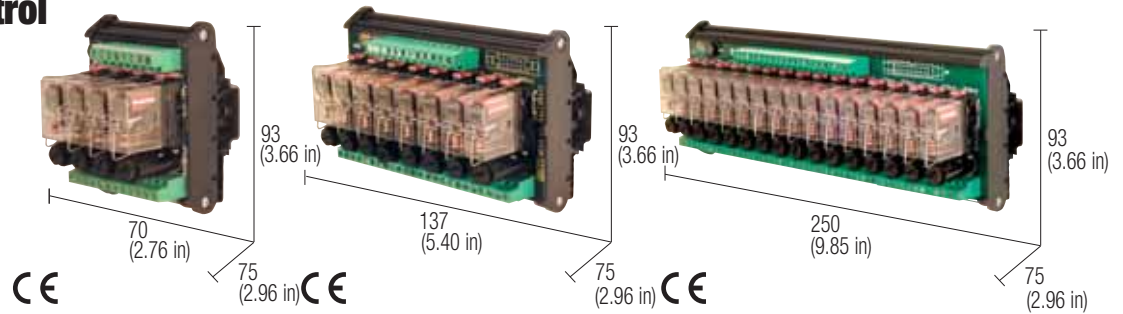
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	192 g (6.76 oz) 345 g (12.18 oz) 688 g (24.29 oz)
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. 8904001
Screw type jumper	red white blue

24 Vac/dc SPDT relay modules universal control voltage with fuse

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay
- Output contact with protection fuse



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. (2) The interface is supplied without a fuse and the screw plug of the fuse-holder is provided in a bag inside the packaging. The fuse must be dimensioned according to load. The max. value of 6.3 A is referred to EN60127-complying fuses and the homologation rated current of the fuseholder. Fuses of a higher value may damage the fuseholder and module.

VERSIONS

4 relay module

8 relay module

16 relay module

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc $\pm 10\%$
Rated current (1 channel)	22 mA $\pm 10\%$
Turn ON time	15 ms
Turn OFF time	10 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂ per 4 relé
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	6,3 A (2)

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 00 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 ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	210 g (7.41 oz) 326 g (11.51 oz) 770 g (27.18 oz)
Mounting information	vertical on rail adjacent without gap

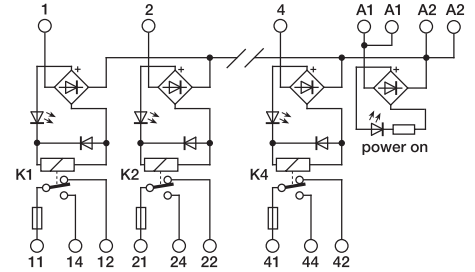
MOUNTING ACCESSORIES

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. 8904001
Screw type jumper	red — white — blue —

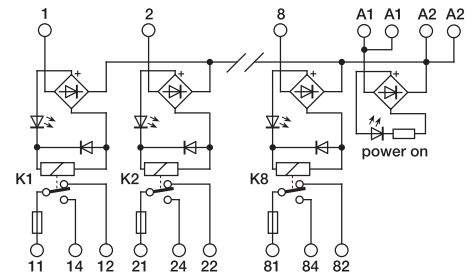
POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

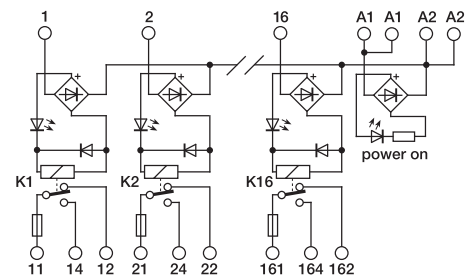
BLOCK DIAGRAM



4 relay module



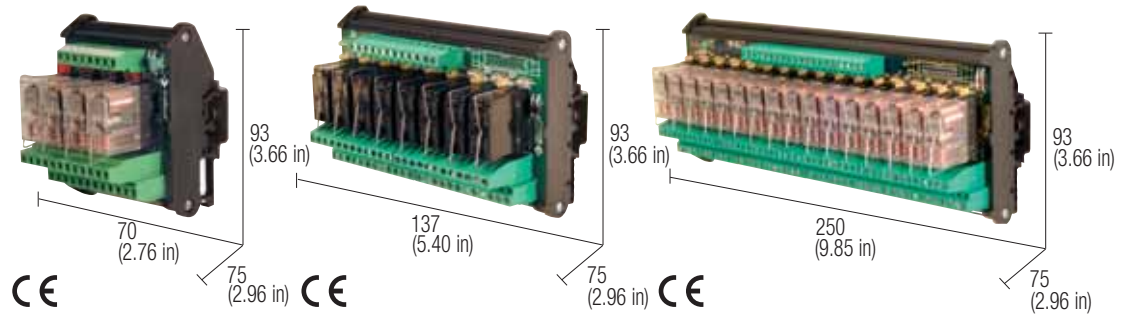
8 relay module



16 relay module

24 Vdc DPDT relay modules negative common

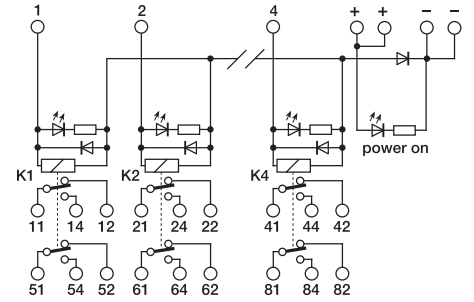
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay



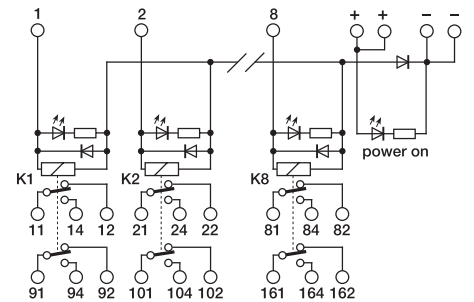
NOTES

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.

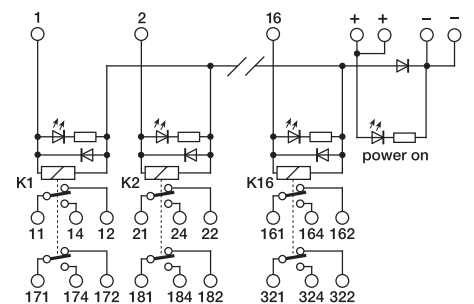
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

4 relay module

8 relay module

16 relay module

Cat. No. XR042E24	Cat. No. XR082E24	Cat. No. XR162E24
R42E24	R82E24	R162E24

INPUT TECHNICAL DATA

Rated voltage	24 Vdc \pm 10%
Rated current (1 channel)	22 mA \pm 10%
Turn ON time	15 ms
Turn OFF time	10 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgNi
Nominal load (resistive)	8 A / 250 Vac
Current breaking power	8 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

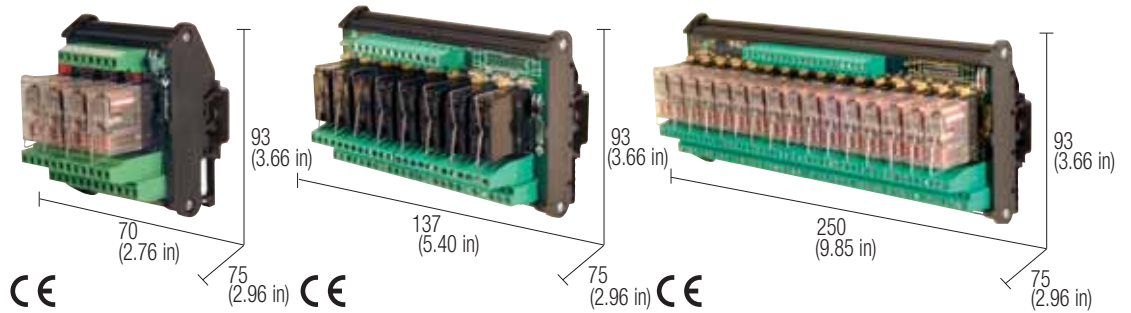
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	225 g (7.94 oz) 419 g (14.78 oz) 811 g (28.60 oz)
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. 8904002
Screw type jumper	red white blue

24 Vdc DPDT relay modules positive common

- DC control voltage
- Positive control voltage
- Status LED display
- Pluggable relay

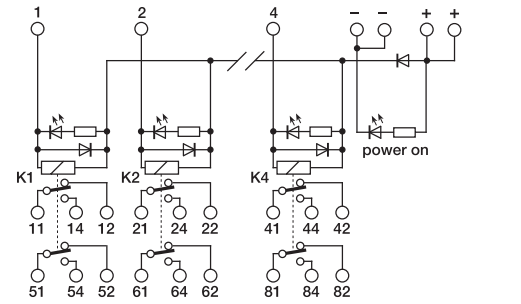


NOTES

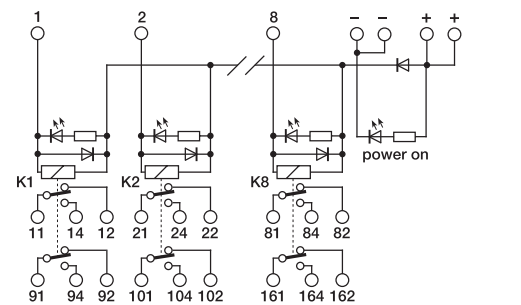
The height dimension includes 35 mm DIN rail.
 (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

Article available until sell-out
 XR042E24P will be replaced by XR042EAD
 XR082E24P will be replaced by XR082EAD
 XR162E24P will be replaced by XR162EAD

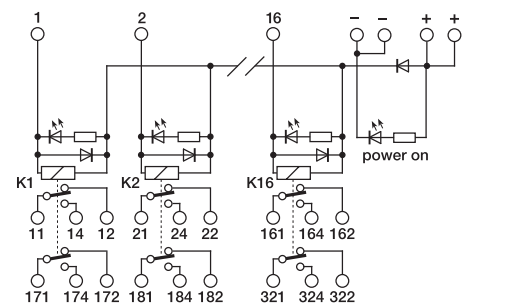
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

- 4 relay module
- 8 relay module
- 16 relay module

Cat. No. XR042E24P	Cat. No. XR082E24P	Cat. No. XR162E24P
R42E24P	R82E24P	R162E24P

INPUT TECHNICAL DATA

Rated voltage	24 Vdc \pm 10%
Rated current (1 channel)	22 mA \pm 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgNi
Nominal load (resistive)	8 A / 250 Vac
Current breaking power	8 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

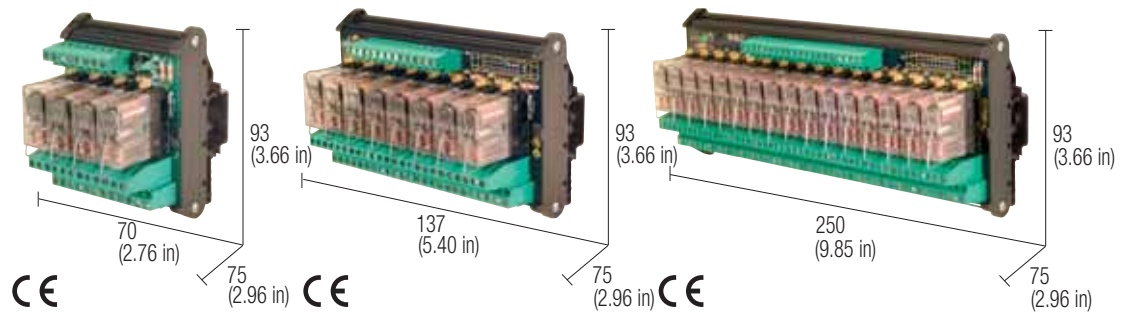
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	225 g (7.94 oz) 419 g (14.78 oz) 811 g (28.60 oz)
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. 8904002
Screw type jumper	red white blue

24 Vac/dc DPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay



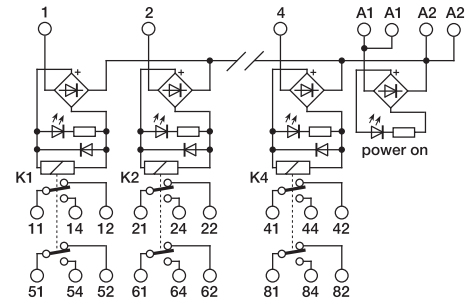
NOTES

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.
 (2) Version available upon request.

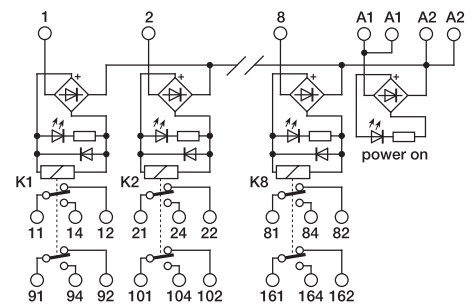
POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

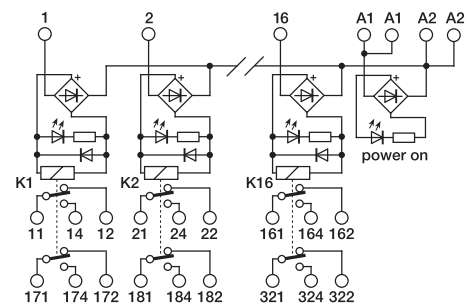
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

4 relay module

8 relay module

16 relay module

Cat. No. XR042EAD	Cat. No. XR082EAD	Cat. No. XR162EAD
R42EAD	R82EAD	R162EAD

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc $\pm 10\%$
Rated current (1 channel)	22 mA $\pm 10\%$
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgNi
Nominal load (resistive)	8 A / 250 Vac
Current breaking power	8 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

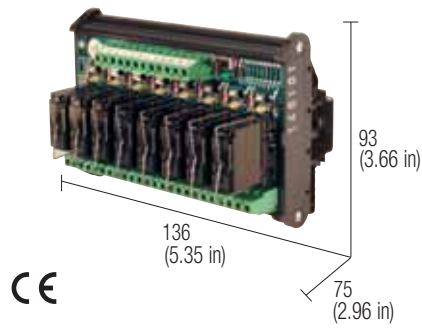
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overvoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	227 g (8.01 oz) 427 g (15.07 oz) 835 g (29.48 oz)
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. 8904002
Screw type jumper	red white blue

24 Vac/dc relay modules universal control voltage with test push button

- DC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay
- Test with push button and micro switch



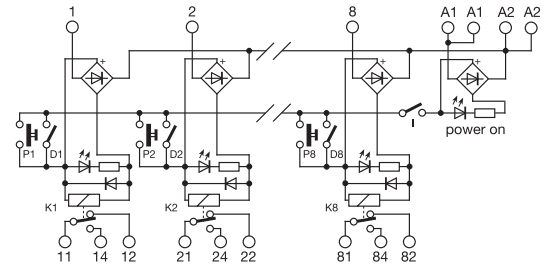
NOTES

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.
 (2) They replace XRP08124 and XRD08124 models.

POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

BLOCK DIAGRAM



- P = test button
- D = dip-switch
- IG = master switch (disable the push button and dip-switch)

VERSIONS

Con pulsante e dip switch

Cat. No. XRMP081CM (2)

RMPO81CM

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc ± 10%
Rated current (1 channel)	22 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂ per 8 relé
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
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 00 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 ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	350 g (12.36 oz)
Mounting information	vertical on rail adjacent without gap

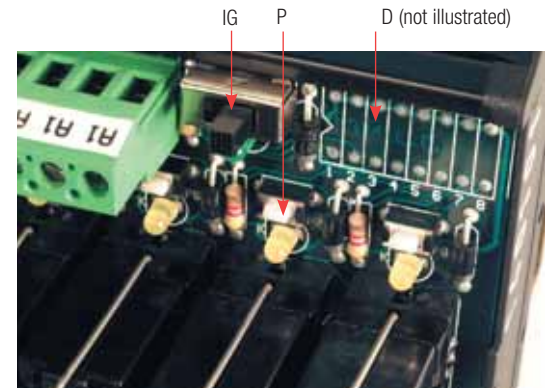
MOUNTING ACCESSORIES

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. 8904001
Screw type jumper	red
	white
	blue

This series of products allows piloting with alternating and direct current, in which case only positive control is possible. We also recommend cutting JP jumpers if piloting takes place via low-current devices (e.g. proximity sensors).

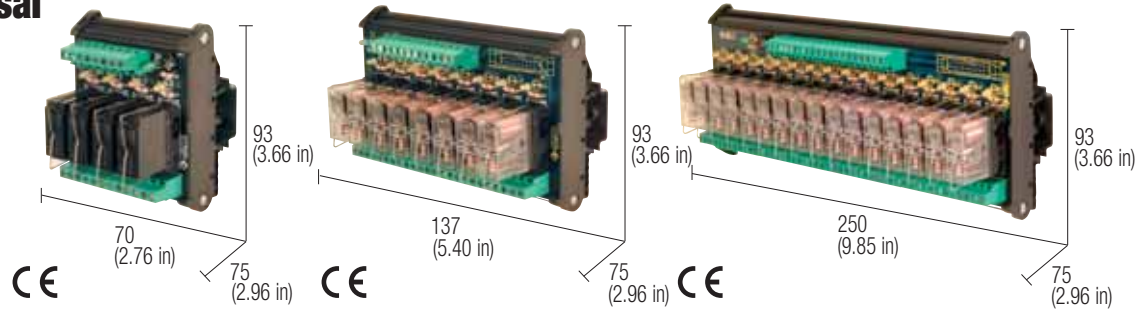
On both versions it is possible the temporary turn on of the relay by pushing the relative button.

On model RDO8124 it is possible to switch on the relays permanently with a Dip-Switch.



110...120 Vac/dc SPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay



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.

Article available until sell-out

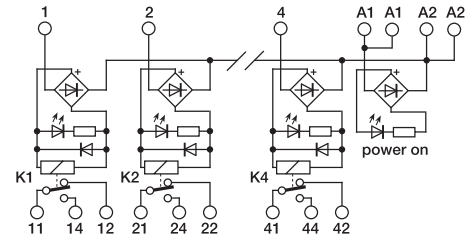
With 110 Vdc rated voltage:

- replace XR041E11A with no.4 XCM1C110 and no.1 XCMB16B
- replace XR081E11A with no.8 XCM1C110 and no.1 XCMB16B
- replace XR161E11A with no.16 XCM1C110 and no.2 XCMB16B

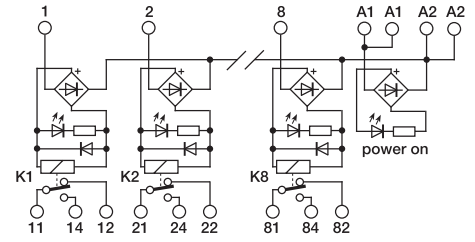
With 120 Vac rated voltage:

- replace XR041E11A with no.4 XCM1A120 and no.1 XCMB16B
- replace XR081E11A with no.8 XCM1A120 and no.1 XCMB16B
- replace XR161E11A with no.16 XCM1A120 and no.2 XCMB16B

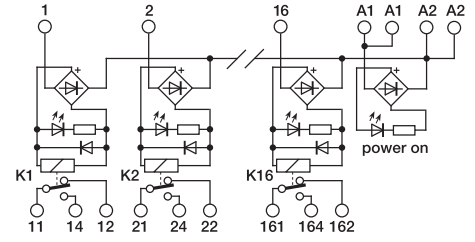
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

POWER SUPPLY		
A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

VERSIONS

- 4 relay module
- 8 relay module
- 16 relay module

Cat. No. XR041E1A	Cat. No. XR081E1A	Cat. No. XR161E1A
R41E11A	R81E11A	R161E11A

INPUT TECHNICAL DATA

Rated voltage	110 Vdc / 120 Vac ± 10%
Rated current (1 channel)	11 mA ± 10%
Turn ON time	7 ms
Turn OFF time	3 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgNi
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

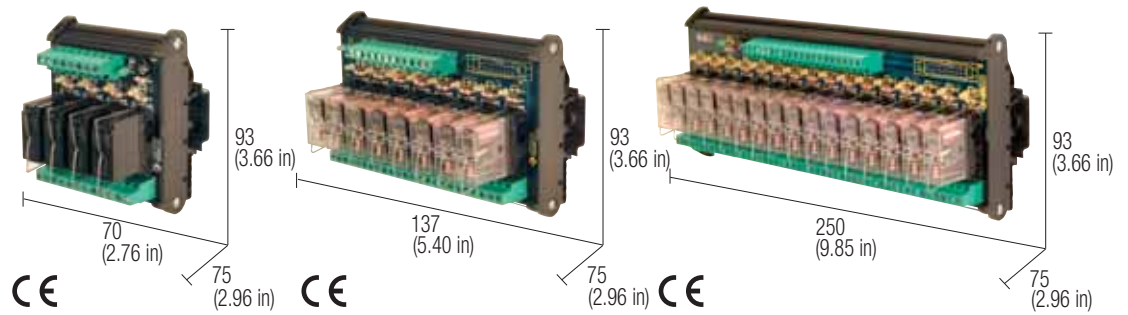
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	192 g (6.76 oz) 345 g (12.18 oz) 688 g (24.29 oz)
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. 8904047
Screw type jumper	red white blue

230 Vac SPDT relay modules

- AC control voltage
- Status LED display
- Pluggable relay

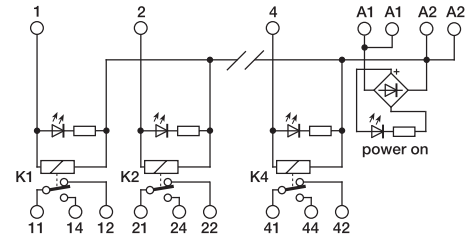


NOTES

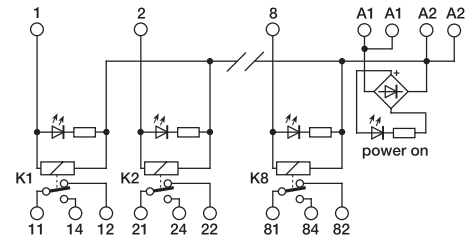
The height dimension includes 35 mm DIN rail.
 (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

Article available until sell-out
 replace XR041E22A with no.4 XCM1A230 and no.1 XCMB16B
 replace XR081E22A with no.8 XCM1A230 and no.1 XCMB16B
 replace XR161E22A with no.16 XCM1A230 and no.2 XCMB16B

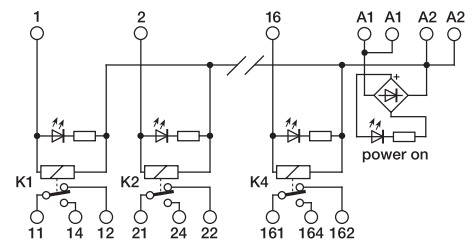
BLOCK DIAGRAM



4 relay module



8 relay module



16 relay module

VERSIONS

- 4 relay module
- 8 relay module
- 16 relay module

Cat. No. XR041E2A	Cat. No. XR081E2A	Cat. No. XR161E2A
R41E22A	R81E22A	R161E22A

INPUT TECHNICAL DATA

Rated voltage	230 Vac \pm 10%
Rated current (1 channel)	10 mA \pm 10%
Turn ON time	7 ms
Turn OFF time	2 ms
Protection circuit	—

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgSnO ₂
Nominal load (resistive)	12 A / 250 Vac
Current breaking power	12 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

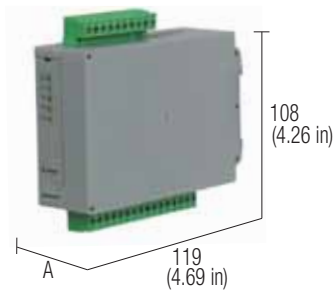
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	192 g (6.76 oz) 345 g (12.18 oz) 688 g (24.29 oz)
Mounting information	vertical on rail adjacent without gap

MOUNTING ACCESSORIES

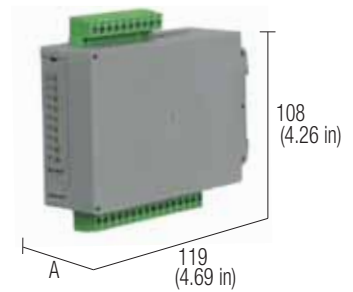
Mounting rail type according to IEC60715/TH35	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Replacement relay (1)	Cat. No. 8904050
Screw type jumper	red white blue

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

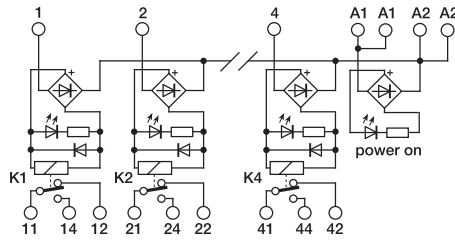


A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

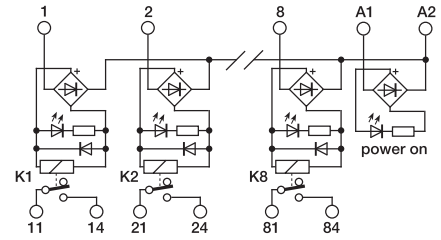
NOTES

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
CRE4-1

Cat. No. XCR4
CR4-1

Cat. No. XCRE81
CRE8-1

Cat. No. XCR81
CR8-1

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc ± 10%
Rated current (1 channel)	16 mA ± 10%
Turn ON time	7 ms
Turn OFF time	3 ms
Protection circuit	bridge rectifier

24 Vac/dc ± 10%
 16 mA ± 10%
 7 ms
 3 ms
 bridge rectifier

24 Vac/dc ± 10%
 16 mA ± 10%
 7 ms
 3 ms
 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.	—

SPDT AgNiO per 4 relé
 8 A / 250 Vac
 2000 VA
 —

SPST(NO) per 8 relay
 8 A / 250 Vac
 2000 VA
 —

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 ² 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

-10...+50°C
 2.5 kVac / 60 s
 1 kVac / 60 s (between open contact)
 IP 20 IEC 529, EN60529
 III / 2
 IEC 664-1, DIN VDE 0110.1
 green LED / yellow LED
 2.5 mm² fixed screw type
 UL94V-0 plastic material
 143 g (5.05 oz) (180 g [6.35 oz] pluggable version)
 vertical on rail adjacent without gap

-10...+50°C
 3 kVac / 60 s
 1 kVac / 60 s (between open contact)
 IP 20 IEC 529, EN60529
 III / 2
 IEC 664-1, DIN VDE 0110.1
 green LED / yellow LED
 2.5 mm² fixed screw type
 UL94V-0 plastic material
 199 g (7.02 oz) (250 g [8.83 oz] pluggable version)
 vertical on rail adjacent without gap

MOUNTING ACCESSORIES

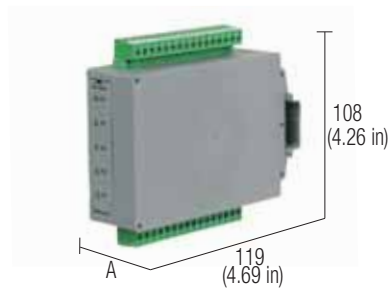
Mounting rail type according to IEC60715/TH35	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Replacement relay (1)	Cat. No. 8904042
Screw type jumper	red white blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
 Cat. No. 8904042

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
 Cat. No. 8904042

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

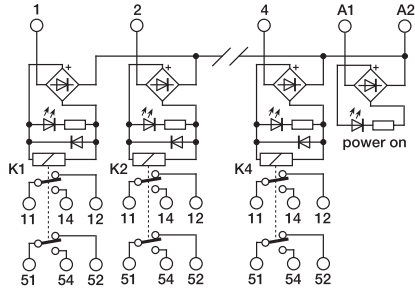


A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

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.

BLOCK DIAGRAM



VERSIONS

Pluggable relay
 Fixed relay

Cat. No. XCRE42SC

Cat. No. XCR42SC

CRE4-2SC

CR4-2SC

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc \pm 10%
Rated current (1 channel)	25 mA \pm 10%
Turn ON time	7 ms
Turn OFF time	2 ms
Protection circuit	bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgNi per 4 relé
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 ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	137 g (180 g 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. 8904052
Screw type jumper	—
red	—
white	—
blue	—

PLC interface modules quick selection table

These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

Input modules

Number of channels	Connection type	Notes	Type	Cat. No.	Page
8 without isolation	12 Vdc	(1) (4)	IF16S7	XIF16S7	125
8 without isolation	12 Vdc	(1) (3)	IF16LS7	XIF16LS7	125
32 without isolation	12 Vdc	(1) (4)	IF416S7	XIF416S7	125
32 without isolation	12 Vdc	(1) (3)	IF416LS7	XIF416LS7	125

Output modules

Number of channels	Input voltage	Output		Notes	Type	Cat. No.	Page
		type / no. of contacts	rated current				
8	24 Vdc	SPST(NO)	8 A	(1) (3) (5)	CR8-3	XCR83	126
8	24 Vdc	SPST(NO)	8 A	(1) (3) (5)	CRE8-3	XCRE83	126
8	24 Vdc	SPDT	10 A	(1) (3) (5)	RFE8124	XRFE8124	126
8	24 Vdc	DPDT	5 A	(1) (3) (5)	RFE8224	XRFE8224	127
16	24 Vdc	SPDT	10 A	(2) (3) (5)	RFE16124	XRFE16124	128
16	24 Vdc	DPDT	5 A	(2) (3) (5)	RFE16224	XRFE16224	128

Notes

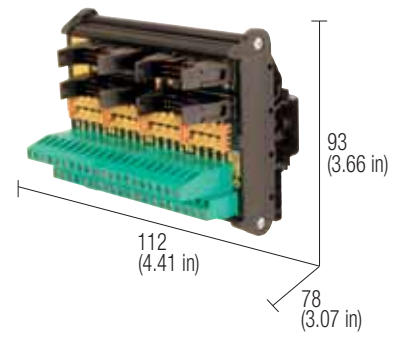
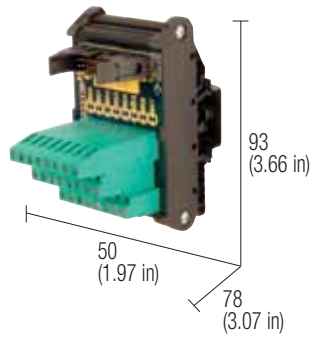
- (1) suitable for PLC Siemens S7 series
- (2) suitable for PLC Telemecanique
- (3) with LED to display the status

- (4) without LED to display the status
- (5) version with pluggable relay

PLC S7 300 & S7 400 Interface modules

- I/O modules
- With or without status LED display
- Fast connection

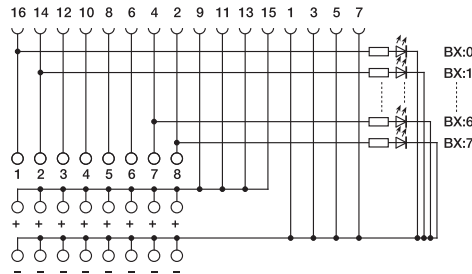
Item available till sell-out



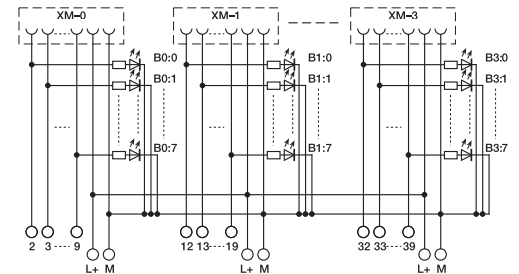
NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

BLOCK DIAGRAM



BLOCK DIAGRAM



VERSIONS

- With LED to display the status
- Without LED to display the status

Cat. No. XIF16S7

IF16S7

Cat. No. XIF416LS7

IF416LS7

Cat. No. XIF416S7

IF416S7

INPUT TECHNICAL DATA

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	5 mA ± 10% (only with "Status LED" version)
Turn ON time	—
Turn OFF time	—
Protection circuit	—

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	5 mA ± 10% (only with "Status LED" version)
Turn ON time	—
Turn OFF time	—
Protection circuit	—

OUTPUT TECHNICAL DATA

Type and number of contacts	8 channels without isolation
Nominal load (resistive)	—
Current breaking power	—
Current of the fuse max.	—

Type and number of contacts	4 x 8 channels without isolation
Nominal load (resistive)	—
Current breaking power	—
Current of the fuse max.	—

GENERAL TECHNICAL DATA

Operating temperature	-10...+50°C
Coil/contact isolation	—
Isolation between output terminals	—
Protection degree	IP 00 IEC529, EN60529
Overtoltage category / Pollution degree	II / 2
Reference Standard	IEC 664-1
Status display	LED (solo su IF16LS7)
Connection terminals	flat cable 16 poles male and 2.5 mm ² fixed screw ty'e
Housing material	polyamide UL94V-0
Approx. weight	—
Mounting information	—

Operating temperature	-10...+50°C
Coil/contact isolation	—
Isolation between output terminals	—
Protection degree	IP 00 IEC529, EN60529
Overtoltage category / Pollution degree	II / 2
Reference Standard	IEC 664-1
Status display	LED (solo su IF416LS7)
Connection terminals	flat cable 16 poles male and 2.5 mm ² fixed screw ty'e
Housing material	polyamide UL94V-0
Approx. weight	—
Mounting information	—

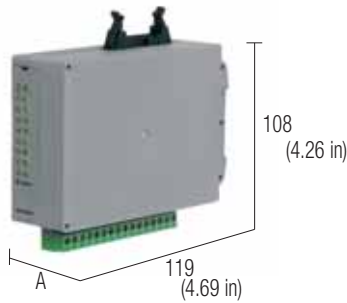
MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35	PR/3/AC, PR/3/AS
Mounting rail type according to IEC60715/G32	PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Replacement relay (1)	—
Screw type jumper	red white blue

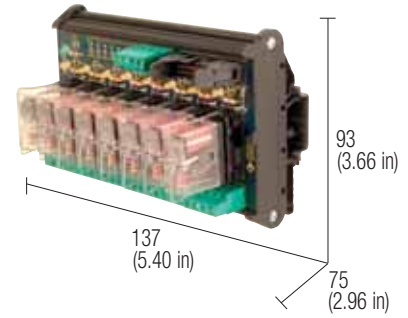
Mounting rail type according to IEC60715/TH35	PR/3/AC, PR/3/AS
Mounting rail type according to IEC60715/G32	PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Replacement relay (1)	—
Screw type jumper	red white blue

PLC S7 300 & S7 400 Interface modules

- Very compact dimension in CR version
- Fast connection
- Pluggable relay
- Status LED display



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

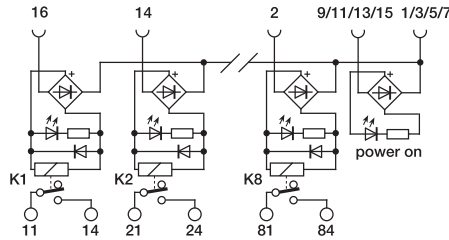


CE **Item available until sell-out
will be replaced by XR081E24**

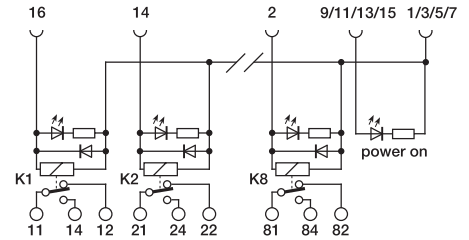
NOTES

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.
(2) Version available upon request.

BLOCK DIAGRAM



BLOCK DIAGRAM



VERSIONS

Pluggable relay
Fixed relay

Cat. No. XCRE83	Cat. No. XCR83
CRE8-3	CR8-3

Cat. No. XRF8124
RFE8124

INPUT TECHNICAL DATA

Rated voltage	24 Vac/dc ± 10%
Rated current (1 channel)	16 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	bridge rectifier

Rated voltage	24 Vac/dc ± 10%
Rated current (1 channel)	20 mA ± 10%
Turn ON time	15 ms
Turn OFF time	10 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	SPST(NO) per 8 relay
Nominal load (resistive)	10 A / 250 Vac
Current breaking power	2000 VA
Current of the fuse max.	—

Type and number of contacts	SPDT AgNiO per 8 relé
Nominal load (resistive)	10 A / 250 Vac
Current breaking power	10 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

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	flat cable 16 poles male
Housing material	UL94V-0 plastic material
Approx. weight	199 g (7.02 oz)
Mounting information	vertical on rail adjacent without gap

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 00 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	flat cable 16 poles male and 2.5 mm ² fixed screw ty/e
Housing material	UL94V-0 plastic material
Approx. weight	342 g (12.07 oz)
Mounting information	vertical on rail adjacent without gap

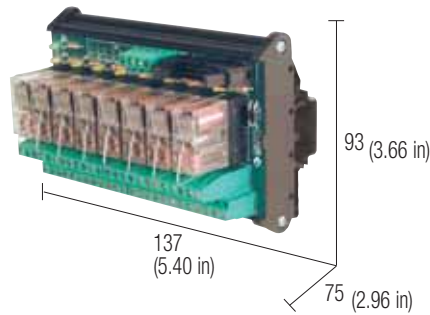
MOUNTING ACCESSORIES

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	—
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. 8904001
Screw type jumper	— — —

PLC S7 300 & S7 400 Interface modules

- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay
- Fast connection

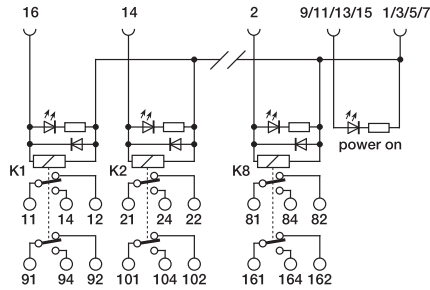


CE **Item available until sell-out
will be replaced by XR082E24**

NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.
(2) Version available upon request.

BLOCK DIAGRAM



VERSIONS

Pluggable relay
Fixed relay

Cat. No. XRF8224

RFE8224

INPUT TECHNICAL DATA

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	20 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	DPDT AgNiO per 8 relé
Nominal load (resistive)	5 A / 250 Vac
Current breaking power	5 A
Current of the fuse max.	—

GENERAL TECHNICAL DATA

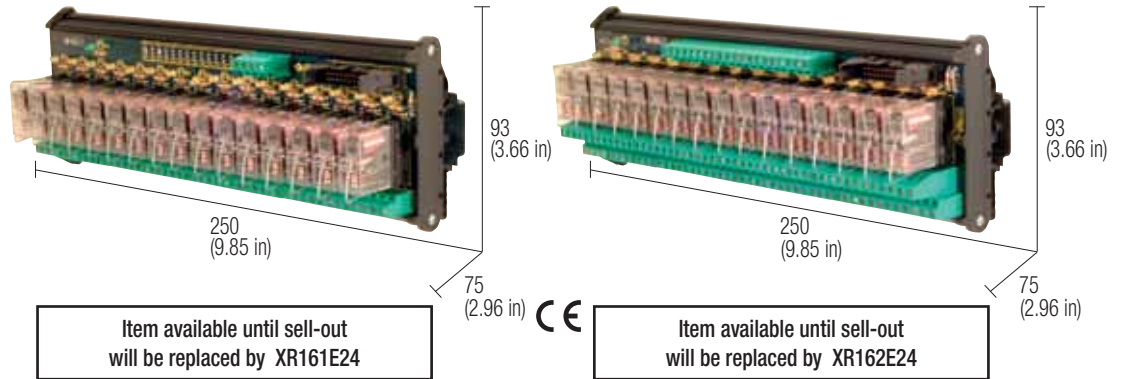
Operating temperature range	-10...+50°C
Coil/contact isolation	2.5 kVac / 60 s
Isolation between output terminals	1 kVac / 60 s (between open contact)
Protection degree	IP 00 IEC 529, EN60529
Overtoltage category / Pollution degree	III / 2
Reference Standard	IEC 664-1, DIN VDE 0110.1
Status display	green LED / yellow LED
Connection terminal	flat cable 16 poles male and 2.5 mm ² fixed screw type
Housing material	UL94V-0 plastic material
Approx. weight	419 g (14.79 oz)
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. 8904002
Screw type jumper	—
red	—
white	—
blue	—

Telemecanique PLC interface modules

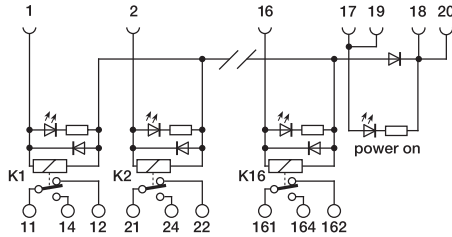
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay
- Fast connection



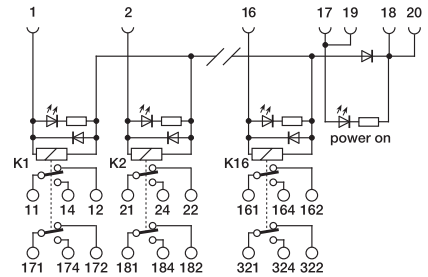
NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

BLOCK DIAGRAM



BLOCK DIAGRAM



VERSIONS

Pluggable relay
Fixed relay

Cat. No. XRFE16124

RFE16124

—

Cat. No. XRFE16224

RFE16224

—

INPUT TECHNICAL DATA

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	20 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

Rated voltage	24 Vdc ± 10%
Rated current (1 channel)	20 mA ± 10%
Turn ON time	15 ms
Turn OFF time	5 ms
Protection circuit	damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts	SPDT AgNiO per 16 relé
Nominal load (resistive)	10 A / 250 Vac
Current breaking power	10 A
Current of the fuse max.	—

Type and number of contacts	DPDT AgNiO per 16 relé
Nominal load (resistive)	5 A / 250 Vac
Current breaking power	5 A
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 00 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	flat cable 16 poles male and 2.5 mm ² fixed screw ty'e
Housing material	UL94V-0 plastic material
Approx. weight	657 g (23.19 oz)
Mounting information	vertical on rail adjacent without gap

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 00 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	flat cable 16 poles male and 2.5 mm ² fixed screw ty'e
Housing material	UL94V-0 plastic material
Approx. weight	811 g (28.63 oz)
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. 8904001
Screw type jumper	—
red	—
white	—
blue	—

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Cat. No. 8904002