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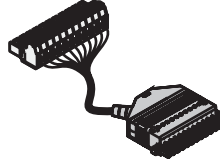
## Interfast 3

PLC board with built-in connector  
Cable with Omnicconnect connector

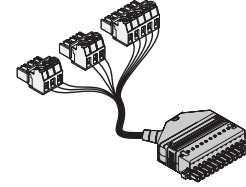
3



CPU Series 40



8 Inputs



6 Outputs

Type of board	Connector Interface	Decoupling Interface	Type of board	Connector Interface	Decoupling Interface
07CR41-24 VDC		8 opto	07CR41-24 VDC		
07CR41-120 / 230 V			07CR41-120 / 230 V		
07CT41-24 VDC		8 opto	07CT41-24 VDC		8 Relays N ①② 8 Opto N ①②
07CR42-24 VDC		8 opto	07CR42-24 VDC		
07CR42-120/230 V			07CR42-120 / 230 V		
07CT42-24 VDC		8 opto	07CT42-24 VDC		

Length	Type of cable	Reference w/ IEC cables	Reference w/UL cables	Type of cable	Reference w/ IEC cables	Reference with UL cables
1m						
1.5m	LA150/AC31-ABB/OMN12/634	0036 911.00	0037 911.01	LA150/AC31-ABB/OMN12/633	0036 905.13	0037 905.14
2m	LA200/AC31-ABB/OMN12/634	0036 912.01	0037 912.02	LA200/AC31-ABB/OMN12/633	0036 906.14	0037 906.15
2.5m						
3m	LA300/AC31-ABB/OMN12/634	0036 914.03	0037 914.04	LA300/AC31-ABB/OMN12/633	0036 908.26	0037 908.27
4m						
5m	LA500/AC31-ABB/OMN12/634	0036 916.05	0037 916.06	LA500/AC31-ABB/OMN12/633	0036 910.13	0037 910.14

### Characteristics

Type of connector	1 Omnicconnect 12 points	1 Omnicconnect 12 points
Wire size	0.34mm <sup>2</sup> - AWG 22	0.34mm <sup>2</sup> - AWG 22
Resistance / capacity cable	54Ω/KM - 120 nF/KM	54Ω/KM - 120 nF/KM
PLC connector interface	1 Plug, 11 poles	2 Plugs, 3 poles + 1 Plug 5 poles

① Do not connect the ground wire.  
② Interfast MS only.

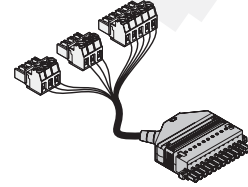
# Interfast 3

## PLC board with built-in connector

## Cable with Omnicconnect connector



CPU Series 50  
ICMK remote box



### 8 Inputs

### 6 Outputs

Type of board	Connector Interface	Decoupling Interface	Type of board	Connector Interface	Decoupling Interface
07KR51-24 VDC		8 opto	07KR51-24 VDC		
07KR51-120/230 V			07KR51-120/230 V		
07KT51-24 VDC		8 opto	07KT51-24 VDC		8 Relays N ①② 8 Opto N ①②
ICMK14F1-24 VDC		8 opto	ICMK14F1-24VDC		
ICMK14F1-120/230 V			ICMK14F1-120/230 V		
ICMK14N1-24 VDC		8 opto	ICMK14N1-24 VDC		8 Relays N ①② 8 Opto N ①②
ICMK14F1-M-24 VDC		8 opto	ICMK14F1-M-24 VDC		
ICMK14F1-M-120/230 V			ICMK14F1-M-120/230 V		
ICMK14N1-M-24 VDC		8 opto	ICMK14N1-M-24 VDC		8 Relays N ①② 8 Opto N ①②

Length	Type of cable	Reference w/ IEC cables catalog number	Reference w/UL cables catalog number	Type of cable	Reference w/ IEC cables catalog number	Reference w/ UL cables catalog number
1m						
1.5m	LA150/AC31-ABB/OMN12/634	0036 911.00	0037 911.01	LA150/AC31-ABB/OMN12/633	0036 905.13	0037 905.14
2m	LA200/AC31-ABB/OMN12/634	0036 912.01	0037 912.02	LA200/AC31-ABB/OMN12/633	0036 906.14	0037 906.15
2.5m						
3m	LA300/AC31-ABB/OMN12/634	0036 914.03	0037 914.04	LA300/AC31-ABB/OMN12/633	0036 908.26	0037 908.27
4m						
5m	LA500/AC31-ABB/OMN12/634	0036 916.05	0037 916.06	LA500/AC31-ABB/OMN12/633	0036 910.13	0037 910.14

### Characteristics

Type of connector	1 Omnicconnect 12 points	1 Omnicconnect 12 points
Wire size	0.34mm <sup>2</sup> - AWG 22	0.34mm <sup>2</sup> - AWG 22
Resistance / capacity cable	54Ω/KM - 120 nF/KM	54Ω/KM - 120 nF/KM
PLC connector interface	1 Plug, 11 poles	2 Plugs, 3 poles + 1 Plug 5 poles

① Do not connect the ground wire.  
② Interfast MS only.

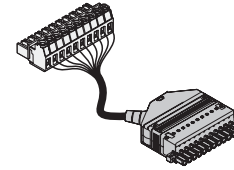
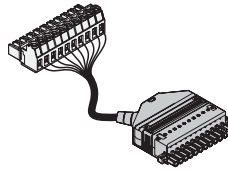
## Interfast 3

PLC board with built-in connector  
Cable with Omnicontact connector

3



XI16E1 extension



Channels 1 to 8

Channels 9 to 16

Type of board	Connector Interface	Decoupling Interface	Type of board	Connector Interface	Decoupling Interface
XI16E1		8 opto	XI16E1		8 opto

Length	Type of cable	Channels 1 to 8		Channels 9 to 16	
		Reference w/ IEC cables catalog number	Reference w/UL cables catalog number	Reference w/ IEC cables catalog number	Reference w/ UL cables catalog number
1m					
1.5m	LA150/AC31-ABB/OMN12/636	0036 917.06	0037 917.07	LA150/AC31-ABB/OMN12/638	0036 929.12 0037 929.13
2m	LA200/AC31-ABB/OMN12/636	0036 918.17	0037 918.10	LA200/AC31-ABB/OMN12/638	0036 930.17 0037 930.10
2.5m					
3m	LA300/AC31-ABB/OMN12/636	0036 920.15	0037 920.16	LA300/AC31-ABB/OMN12/638	0036 932.05 0037 932.06
4m					
5m	LA500/AC31-ABB/OMN12/636	0036 922.03	0037 922.04	LA500/AC31-ABB/OMN12/638	0036 934.07 0037 934.00

### Characteristics

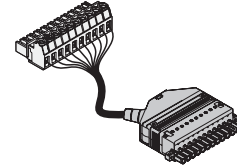
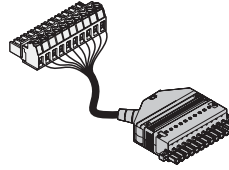
Type of connector	Channels 1 to 8	Channels 9 to 16
Type of connector	1 Omnicontact 12 points	1 Omnicontact 12 points
Wire size	0.34mm <sup>2</sup> - AWG 22	0.34mm <sup>2</sup> - AWG 22
Resistance / capacity cable	54Ω/KM - 120 nF/KM	54Ω/KM - 120 nF/KM
PLC connector interface	1 Plug, 10 poles	1 Plug 10 poles

# Interfast 3

## PLC board with built-in connector

### Cable with Omnicconnect connector

XO16N1 extension



Channels 1 to 8

Channels 9 to 16

Type of board	Connector Interface	Decoupling Interface	Type of board	Connector Interface	Decoupling Interface
XO16N1		8 relays N / 8 opto N	XO16N1		8 relays N / 8 opto N

Length	Type of cable	Reference w/ IEC cables catalog number		Type of cable	Reference w/ UL cables catalog number	
		Reference w/ IEC cables catalog number	Reference w/UL cables catalog number		Reference w/ IEC cables catalog number	Reference w/ UL cables catalog number
1m						
1.5m	LA150/AC31-ABB/OMN12/637	0036 923.04	0037 923.05	LA150/AC31-ABB/OMN12/638	0036 929.12	0037 929.13
2m	LA200/AC31-ABB/OMN12/637	0036 924.05	0037 924.06	LA200/AC31-ABB/OMN12/638	0036 930.17	0037 930.10
2.5m						
3m	LA300/AC31-ABB/OMN12/637	0036 926.07	0037 926.00	LA300/AC31-ABB/OMN12/638	0036 932.05	0037 932.06
4m						
5m	LA500/AC31-ABB/OMN12/637	0036 928.11	0037 928.12	LA500/AC31-ABB/OMN12/638	0036 934.07	0037 934.00

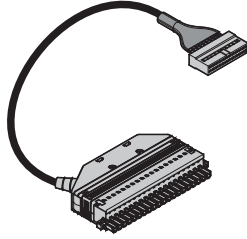
### Characteristics

Type of connector	1 Omnicconnect 12 points	1 Omnicconnect 12 points
Wire size	0.34mm <sup>2</sup> - AWG 22	0.34mm <sup>2</sup> - AWG 22
Resistance / capacity cable	54Ω/KM - 120 nF/KM	54Ω/KM - 120 nF/KM
PLC connector interface	1 Plug, 10 poles	1 Plug 10 poles

## Interfast 3 PLC board with built-in connector

3 HE 10/20 cable to  
Omniconnect connector.

XC 32 L1 extension  
XC 32 L2 extension



<sup>(1)</sup> Note: 2 cables per Module

Type of board	Connector Interface	Decoupling Interface	
		Input	Output
XC 32 L1 <sup>(1)</sup>			16 relays N
		16 opto P	16 opto N
XC 32 L2 <sup>(1)</sup>			16 relays N
		16 opto P	16 opto N

Length	Type of cable	Reference w/ IEC cables catalog number	Reference w/UL cables catalog number
1m	LA100/HE10-20/OMN20/661		0039 000.02
1.5m	LA150/HE10-20/OMN20/661		0039 001.27
2m	LA200/HE10-20/OMN20/661		0039 002.20
2.5m			
3m	LA300/HE10-20/OMN20/661		0039 004.22
4m			
5m	LA500/HE10-20/OMN20/661		0039 006.24

### Characteristics

Type of connector	1 Omniconnect 20 points
Wire size	0.14mm <sup>2</sup> - 26 AWG
Resistance / capacity cable	138 Ω/KM - 120 nF/KM
PLC connector interface	1 HE 10/20 points

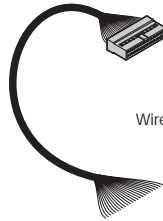
# Interfast 3

## PLC board with built-in connector

Cable to free wires.



XC 32 L1 extension  
XC 32 L2 extension



Wires with ferrules

Connector	
HE 10/20	Color
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red
9	Black
10	Violet
11	Grey-Pink
12	Red-Blue
13	White-Green
14	Brown-Green
15	White-Yellow
16	Yellow-Brown
17	White-Grey
18	Grey-Brown
19	White-Pink
20	Pink-Brown

Type of board	Connector Interface	Decoupling Interface
XC 32 L1 ①		
XC 32 L2 ①		

Length	Type of cable	Reference w/ IEC cables catalog number	Reference w/UL cables catalog number
1m	LAF100/HE10-20/UNI/662		0039 007.06
1.5m	LAF150/HE10-20/UNI/662		0039 008.25
2m	LAF200/HE10-20/UNI/662		0039 009.06
2.5m			
3m	LAF300/HE10-20/UNI/662		0039 011.04
4m			
5m	LAF500/HE10-20/UNI/662		0039 013.22

### Characteristics

Type of connector	Free wires with ferrules
Wire size	0.14mm <sup>2</sup> - 26 AWG
Resistance / capacity cable	138 Ω/KM - 120 nF/KM
PLC connector interface	1 HE 10/20 points

① 2 cables per Module

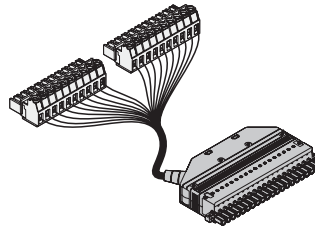
## Interfast 3

PLC board with built-in connector  
Cable with Omnicconnect connector

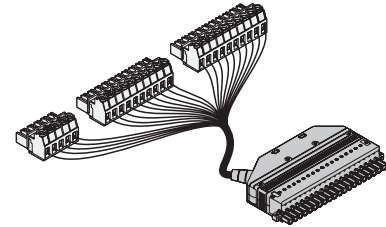
3



Series 90 Module  
07 DC 92



Channels 1 to 16



Channels 17 to 32

Type of board	Connector Interface	Decoupling Interface		Type of board	Connector Interface	Decoupling Interface	
		Input	Output			Input	Output
07DC92			16 relays N	07DC92			16 relays N
		16 opto P	16 opto N			16 opto P	16 opto N

Length	Type of cable	Reference w/ IEC cables catalog number		Type of cable	Reference w/ IEC cables catalog number	
		Reference w/ IEC cables catalog number	Reference w/UL cables catalog number		Reference w/ IEC cables catalog number	Reference with UL cables catalog number
1m						
1.5m	LA150/AC31-ABB/OMN20/649	0036 935.00	0037 935.01	LA150/AC31-ABB/OMN20/650	0036 941.16	0037 941.17
2m	LA200/AC31-ABB/OMN20/649	0036 936.01	0037 936.02	LA200/AC31-ABB/OMN20/650	0036 942.17	0037 942.10
2.5m						
3m	LA300/AC31-ABB/OMN20/649	0036 938.13	0037 938.14	LA300/AC31-ABB/OMN20/650	0036 944.11	0037 944.12
4m						
5m	LA500/AC31-ABB/OMN20/649	0036 940.21	0037 940.22	LA500/AC31-ABB/OMN20/650	0036 946.13	0037 946.14

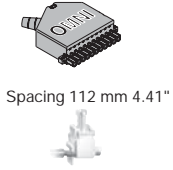
### Characteristics

Type of connector	1 Omnicconnect 20 points	1 Omnicconnect 20 points
Wire size	0.22mm <sup>2</sup> - AWG 24	0.22mm <sup>2</sup> - AWG 24
Resistance / capacity cable	80 Ω/KM - 120 nF/KM	80 Ω/KM - 120 nF/KM
PLC connector interface	2 Plugs 10 poles	2 Plugs 10 poles + 1 Plug 5 poles

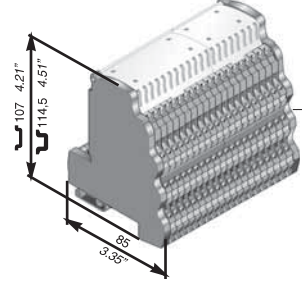
# Interfast MS

## PLC decoupling interface

### 16 relay outputs; Omnicomnect product range, DIN3



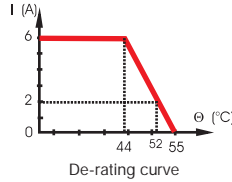
16 N relays 1RT relay output terminal



Terminal block assembly equipped with 2 removable 10 pole comb type jumper bars: removal makes independent outputs possible.

#### Catalog numbers

The units are delivered equipped with relays.  
The relays are also available separately (see ordering Catalog numbers, right column).



Pluggable relay		Plug only		
Type	24 V DC	24 V DC	Type	Catalog number
BRI 1621 N	0631 125.15	R24V-1	6 A/250 V (Ivory)	0031 820.14
Output optos wait 24 VDC input voltage can be mixed and matched.				
BNMS P24V-3	100 mA/48 V (Red)	0031 810.12	See end of accessories section for characteristics.	
BNMS P24V-1	2 A/24 V (Red)	0031 815.03		
BNMS P24V-2	1 A/48 V (Red)	0031 819.17		
BNMS N24V-3	100 mA/48 V (Red)	0031 807.14		
BNMS N24V-1	2 A/24 V (Red)	0031 813.01		
BNMS N24V-2	1 A/48 V (Red)	0031 817.05		
See end of accessories section for characteristics.				

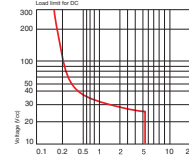
Approval  
CE

#### Characteristics

COIL		
Rated voltage	+ 20%, - 15%	24 V DC
Rated current threshold		17 mA
Trip voltage		1.2 V
CONTACT		
Type		1 RT
Voltage mini. / max.		12 V / 250 V AC
Switching current mini. / max.		10 mA / 6 A
Breaking capacity	AC1 mini. / max.	0.6 VA / 1500 VA (resistance)
	DC1 mini. / max.	0.6 W / 140 W
Maximum load		
Number of operations	on load	1 x 10 <sup>5</sup> in AC15
	off load	10 x 10 <sup>6</sup>
Operating speed	C	6 ms
	O	8 ms
Bounce		1.5 ms
Isolation Coil / Contact		4 kV
Resistance to shock waves	Coil / Contact	4 kV
Isolation Contact / Contact		1 kV
TEMPERATURE		
Ambient temperature	Storage	- 40°C to + 80°C
	Operating	- 20°C to + 55°C
Wire capacity		0 - 2.5 mm <sup>2</sup>

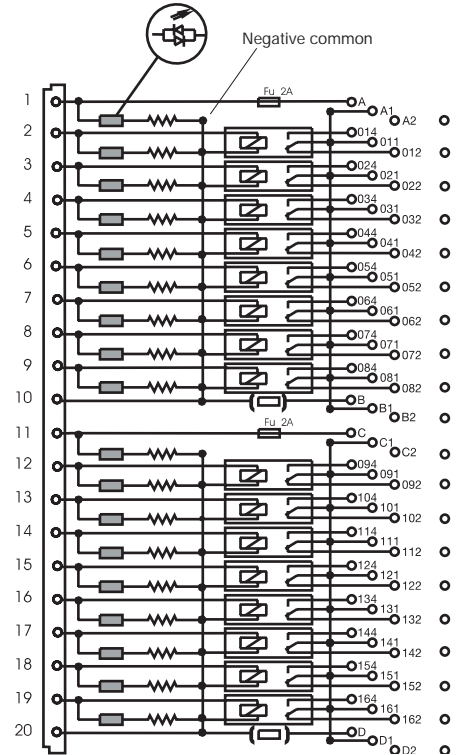
#### Accessories

	Type	Catalog number
1 Combo-type jumper bar	PCMS	See section on accessories.
2 Fuse-holder plug	BFMS AUTO	See section on accessories.
R		See section on making methods.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0.3 A	6 A	0.2 A	3 A
220/230 V	0.2 A	6 A	0.1 A	3 A

Terminal with negative common connection.



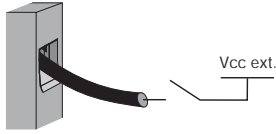
Fuse type: 297 Series Littlefuse.  
Terminal compatible with automate output cards with positive common connection.

# Interfast MS

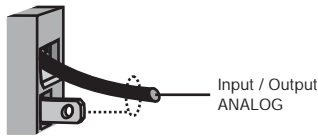
PLC connection interface; 16 channels with  
Screw-clamp connection; Omnicontact product range, DIN3

## Applications

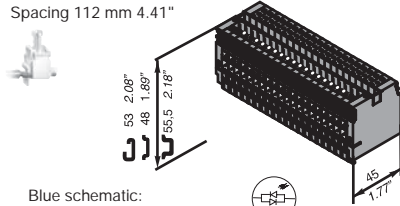
### 3 Single-wire Interface



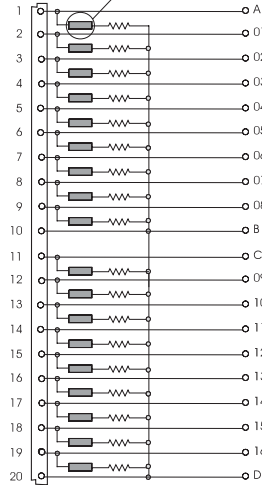
Single-wire Interface with shield connector



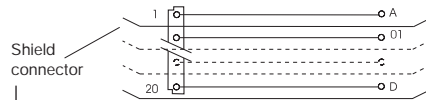
### Single-wire interface with terminal blocks MA2,5/5-CPE



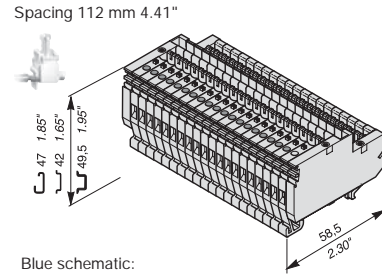
Blue schematic: products equipped with LED



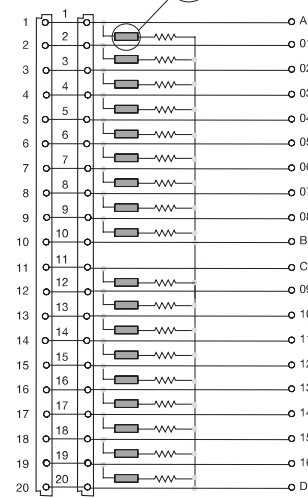
Shield continuity is possible using CBM5 or CBM6 jumper bars (see accessories).



### Single-wire interface with terminal blocks MA2,5/5-2CPE



Blue schematic: products equipped with LED



## Catalog numbers

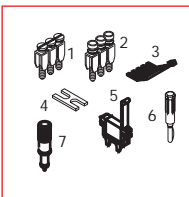
Type	Catalog number	Type	Catalog number
16 channels without LED	BOM-16	BOM-16	0621 017.12
16 channels with LEDs	BOM-16-L	BOM-16-L	0621 019.24

## Characteristics

	Without LED	With LEDs	Without LED	With LEDs
Maximum voltage	250 V AC/DC	30 V DC	250 V AC/DC	30 V DC
Maximum current per point	2 A		2 A	
Maximum current in common wires	5 A		5 A	
Current per LED		5 mA		5 mA
Fuse on the power supply				
Fuse per point				
Test voltage	3 kV	0.5 kV	3 kV	0.5 kV
Operating temperature	- 20°C to + 75°C	- 20°C to + 60°C	- 20°C to + 75°C	- 20°C to + 60°C

## Accessories

Type	Catalog number	Type	Catalog number
1 Jumper bar	BJM5 See section on accessories	BJM5 See section on accessories	
2 Jumper bar	BJM15 See section on accessories	BJM15 See section on accessories	
3 Comb jumper	PC5 See section on accessories	PC5 See section on accessories	
4 Connector plate	EL6	EL6	0173 627.21
5 Fuse plug			
6 Test plug	FC2 Ø 2 mm	FC2 Ø 2 mm	0007 865.26
7 Test device	DCB	DCB blue	0105 028.21
8 Coding	COC1 blue	COC1	0299 777.16
9 Shield connector th. 0.5	CBM5		0178 745.14
10 Shield connector th. 0.8	CBM8		0178 746.15
11 Omnicontact plug	CPFT2	CPFT2	
R See section on marking methods	RC510 20 poles See section on accessories	RC510 20 poles See section on accessories	

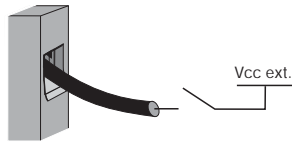


# Interfast MS

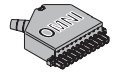
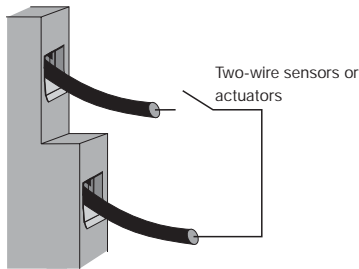
PLC connection interface; 16 channels with  
Screw-clamp connection; Omniproduct range, DIN3

## Applications

Single-wire  
Interface

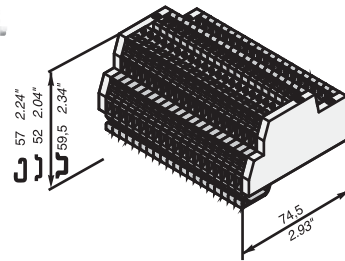


Two-wire  
Interface

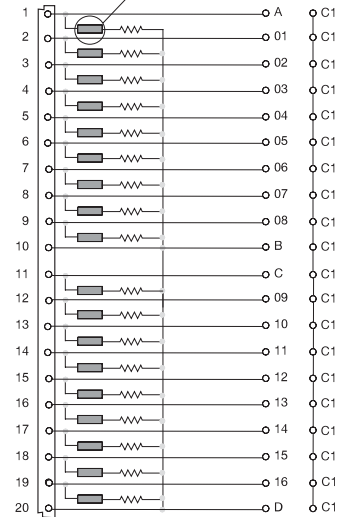


Two-wire interface  
with terminal blocks MA2,5/5D2-2CPE

Spacing 112 mm 4.41"



Blue schematic:  
products equipped  
with LED



## Catalog numbers

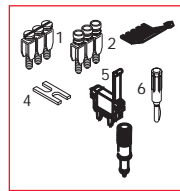
	Type	Catalog number
16 channels without LED	BOM-16-B	0631 025.14
16 channels with LEDs	BOM-16-BL	0631 027.16

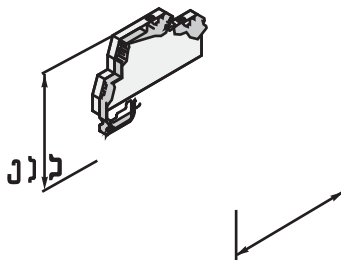
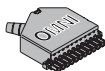
## Characteristics

	Without LED	With LEDs
Maximum voltage	250 V AC/DC	30 V DC
Maximum current per point		2 A
Maximum current in common wires		5 A
Current per LED		5 mA
Fuse on the power supply		
Fuse per point		
Test voltage	3 kV	0.5 kV
Operating temperature	- 20°C to + 75°C	- 20°C to + 60°C
Storage temperature		- 40°C to + 80°C
Type of connector	Omniconnect plug 20 poles	
Wire capacity	0-2.5 mm <sup>2</sup>	

## Accessories

	Type	Catalog number
1 Jumper bar	BJM5 See section on accessories	
2 Jumper bar	BJMI5 See section on accessories	
3 Comb jumper	PC5 See section on accessories	
4 Connector plate	EL6	0173 627.21
5 Fuse plug		
6 Test plug	FC2 Ø 2 mm	0007 865.26
7 Test device	DCB blue	0105 028.21
8 Coding	COC1	0299 777.16
9 Plug with solder tags		
10 Soldered fuses		
11 Omnicontact plug	CPFT2 20 poles See section on accessories	
R See section on marking methods	RC510	



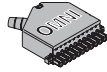


# Interfast MS

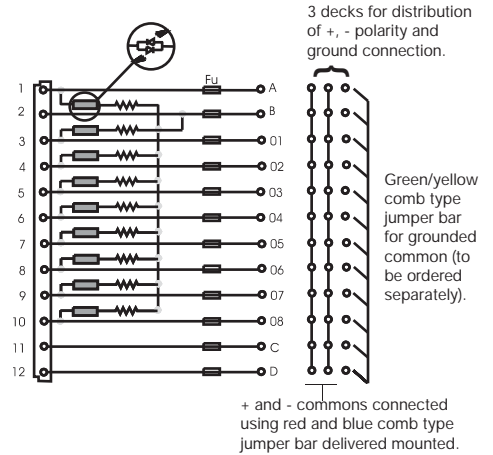
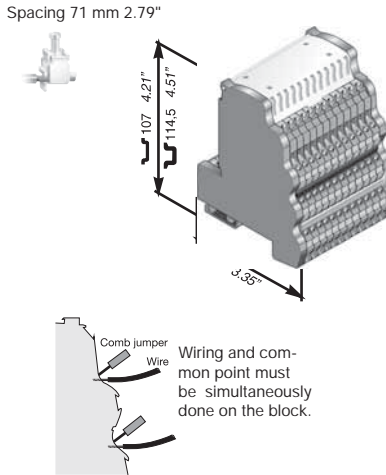
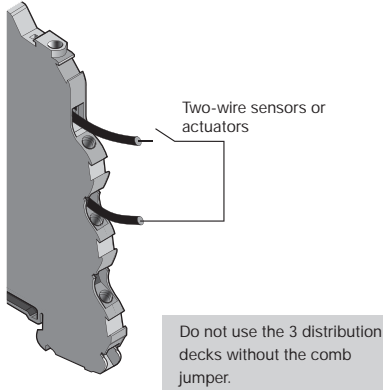
PLC connection interface; 8 channels with  
Screw-clamp connection; Omnicontact product range, DIN3

## Applications

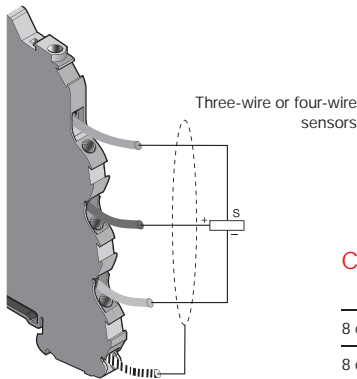
Two-wire  
Interface



Three-wire or four-wire interface  
with fuse on each I/O  
with terminal blocks D2,5/5-SFA-T3PI-CPE



Three-wire / four-wire  
Interface



Blue schematic:  
products equipped  
with LED

## Catalog numbers

Fuse type: 297 Series Littlefuse

	Type	Catalog number
8 channels without LED	BOM 8/FF/TF-PI	0631 098.26
8 channels with LEDs	BOM 8/FF/TFL-PI	0631 096.14

## Characteristics

	Without LED	With LEDs
Maximum voltage	32 V AC/DC	30 V DC
Maximum current per point	2 A	
Maximum current in common wires	5 A	
Current per LED	5 mA	
Fuse on the power supply	5 A	
Fuse per point		
Test voltage		
Operating temperature	- 20°C to + 50°C	
Storage temperature	- 40°C to + 80°C	
Type of connector	Omnicontact plug 12 poles	
Wire capacity	0-2.5 mm <sup>2</sup>	

## Accessories

	Type	Catalog number
1 Comb jumper Red	PCMS	12 Poles 0205 532.23
2 Comb jumper Blue	PCMS	12 Poles 0205 533.24
3 Comb jumper Grey	PCMS	12 Poles 0205 531.22
4 Comb jumper Green/Yellow	PCMS	12 Poles 0205 534.25
5 MS plug		
6 Test plug		
7 Fuse plug	BFMS AUTO	See section on accessories
8 Omnicontact plug	CPFT2 12 poles	See section on accessories
R	See section on marking methods	RC55

