
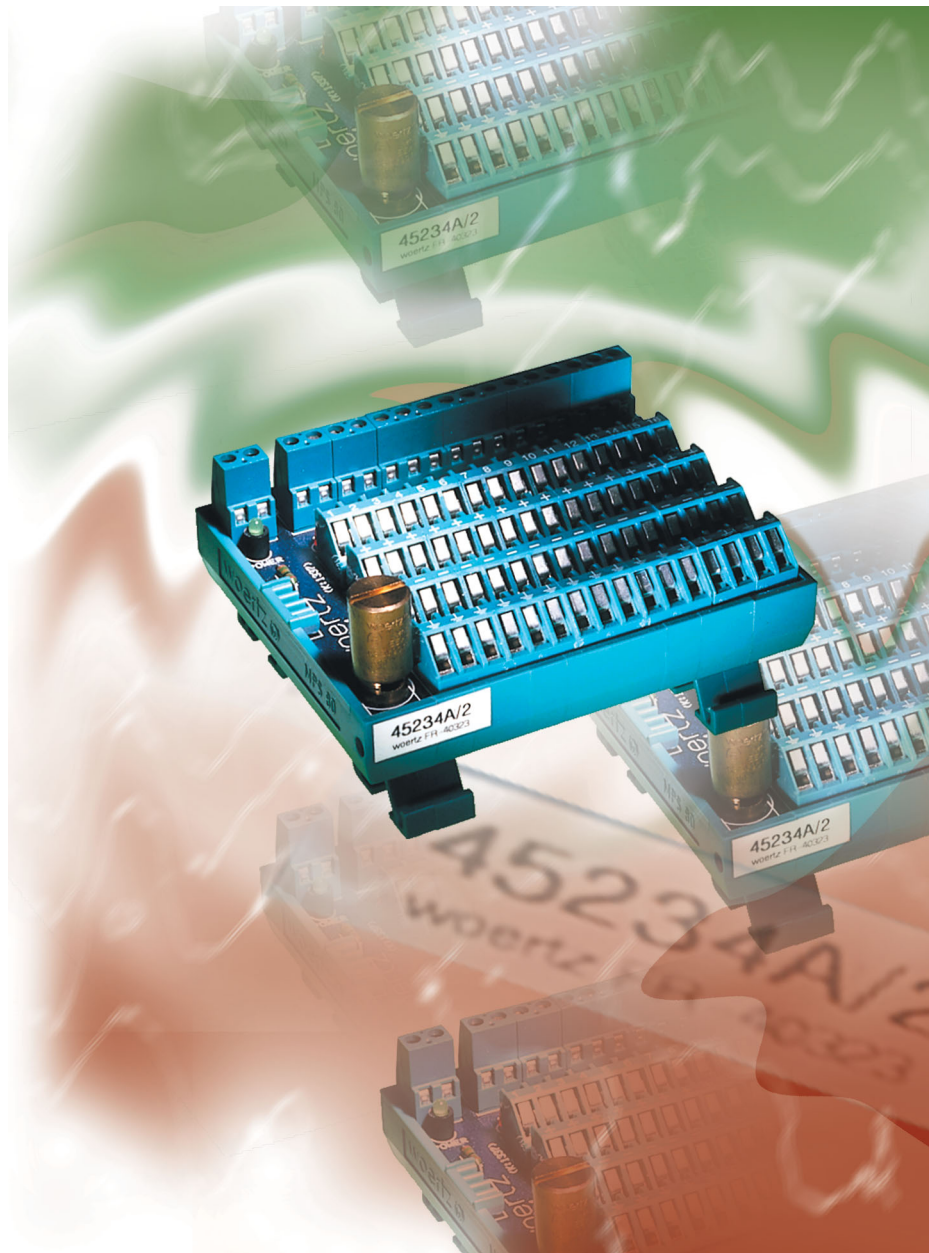


WIRING INTERFACES


woertz



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Wiring interfaces

Introduction

Wiring interfaces with push-on connectors are the interface between controller I/O units with numerous in- and outputs, and a field wiring up to 2.5 mm². They are therefore essential for a flexible configuration of devices and machines. The modules are shaped so they can be clipped on mounting rails according to EN 60715 TH 35-7.5 and EN 60715 TH 35-15 (DIN).

We also deliver flat cables or round cables fitted with connectors to DIN 41651. Just give us the required number of poles and cable length.

RJ11 or RJ45 interfaces are compact and low cost and are therefore well-appreciated. They are employed among others in phone facilities, networks, RS-485 or in other serial lines. Our company also offers wiring interfaces adapted to these widely-used connectors.

Sub-D connectors are robust and widespread connectors. They have an additional shielding function and can carry more current than flat cable connectors. The Woertz modules have the shield connected to a PCB terminal.

The interface modules for proximity switches allow a rational wiring of several proximity switches on a reduced area. Cross-connections are then no longer required. A terminal for cable protection is added to each proximity switch, so that signals are not disturbed even in hard conditions.

Modules with BNC sockets are suitable for connecting measuring, high-frequency or network cables to PCB terminals. On the printed boards space is foreseen for load resistances or other components.

With the power connector modules, various devices can be supplied with power. They can also be filtered and protected against over-voltage. The presence of power is monitored by means of a LED.



Properties

- For flat push-on connectors with strain relief (to order separately)
- High mechanical security: connector strip screwed on the printed circuit board

Range



45110C



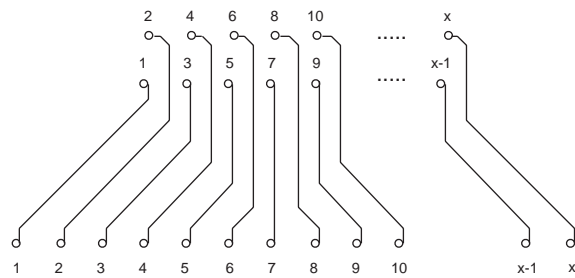
45114A



45118A/2



45118A/2



Technical data

Nominal cross section of connecting terminals

Rated voltage

Rated current load

Contact material

Contact plating

Operating temperature

Modules with pin terminal block

2.5 mm² (AWG 24 - 14)

125 V AC

1 A

phosphor-bronze

gold-plated

-20°C up to +40°C



Order numbers

Size W x H x D

Number of poles

40 x 83 x 58 mm

10

50 x 83 x 58 mm

14

50 x 83 x 58 mm

16

60 x 83 x 58 mm

20

80 x 83 x 58 mm

24

80 x 83 x 58 mm

26

90 x 83 x 58 mm

30

100 x 83 x 58 mm

34

130 x 83 x 58 mm

40

140 x 83 x 58 mm

50

180 x 83 x 58 mm

60

180 x 83 x 58 mm

64

45110 C (see also 45479C/FK*)

45111A/1

45111A/2 (see also 45480C/FK*)

45112 A

45113A/1

45113A/2 (see also 45481C/FK*)

45114 A

45115 A

45116 A

45117 A

45118 A/1

45118A/2

* page 24.9

Flat cable interfaces according to DIN 41651

on MPS 80 base element, extra small, with 45° terminals



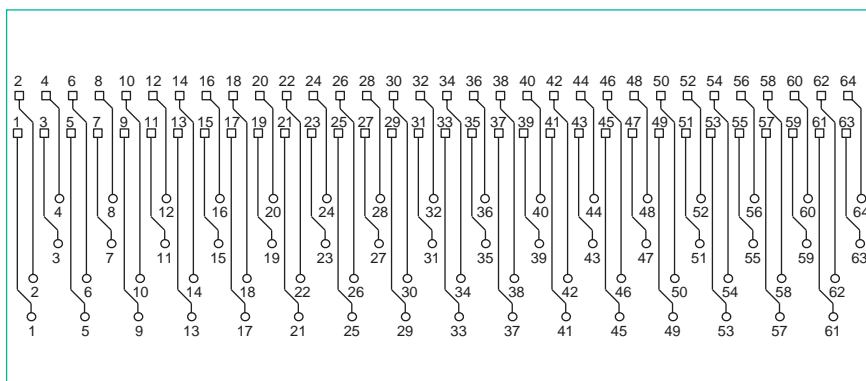
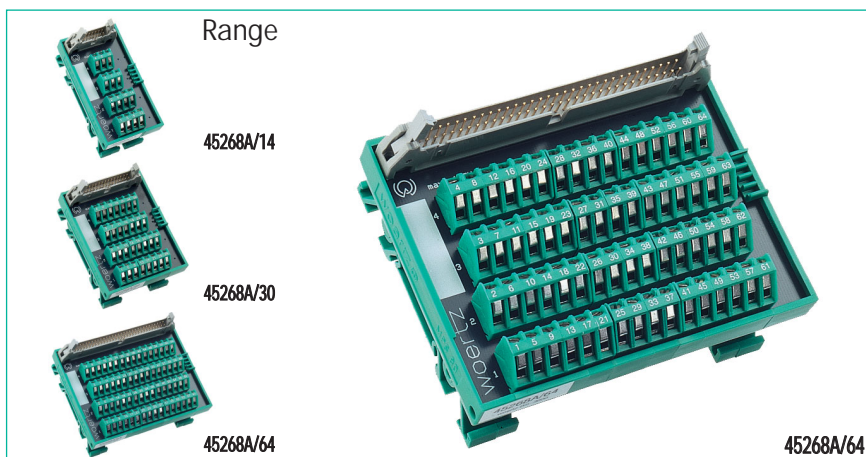
See introduction

- For flat push-on connectors with strain relief (to order separately)
- Small structure thanks to 4 rows of 45° terminals



On request

Push-on connectors for printed circuit boards instead of 45° terminals



Technical data

Nominal cross section of connecting terminals

Rated voltage

Rated current load

Contact material

Contact plating

Operating temperature

Modules with pin terminal block

1.5 mm²

125 V AC

1 A

phosphor-bronze

gold-plated

-20°C up to +40°C



Order numbers

Size W x H x D

Number of poles

40 x 83 x 51 mm

10

45 x 83 x 51 mm

14

45 x 83 x 51 mm

16

50 x 83 x 51 mm

20

55 x 83 x 51 mm

24

60 x 83 x 51 mm

26

65 x 83 x 51 mm

30

70 x 83 x 51 mm

34

75 x 83 x 51 mm

40

90 x 83 x 51 mm

50

100 x 83 x 51 mm

60

105 x 83 x 51 mm

64

45268C/10

45268A/14

45268A/16

45268A/20

45268A/24

45268A/26

45268A/30

45268A/34

45268A/40

45268A/50

45268A/60

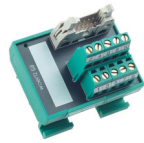
45268A/64



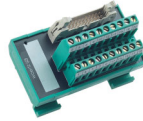
Properties

- Modules with flat push-on connectors
- Base element: MPS 43

Range



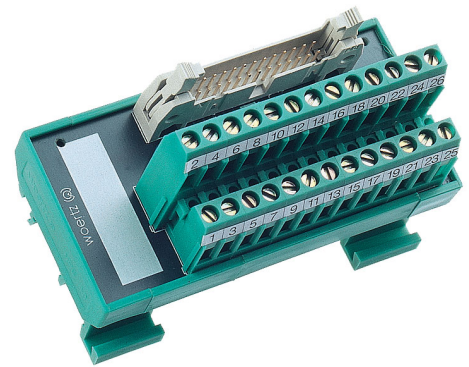
45530D/10



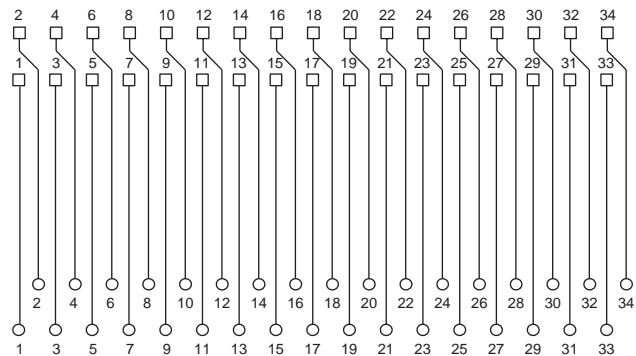
45530D/20



45530D/26



45530D/26



Technical data

Rated voltage
Rated current load
Nominal cross section of connecting terminals

Operating temperature

Modules with pin terminal block

60 V AC/DC
1 A
2.5 mm²

-20°C up to +40°C



Order numbers

Size W x H x D Number of poles

57 x 48 x 62 mm	10
70 x 48 x 62 mm	14
70 x 48 x 62 mm	16
80 x 48 x 62 mm	20
92 x 48 x 62 mm	26
115 x 48 x 62 mm	34

45530D/10
45530D/14
45530D/16
45530D/20
45530D/26
45530D/34

Flat cable interfaces according to DIN 41651

with interruption feature



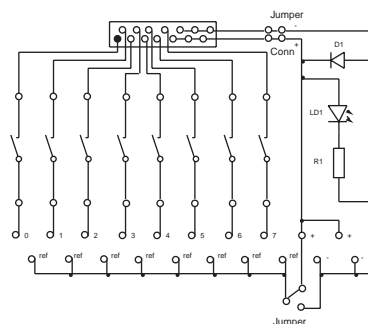
Properties

- Pin assignment of the 14-pole connector according to DIN 41651:

Pin 1 ... 8:	Bit 0 ... 7
Pin 9, 11, 13	Supply +
Pin 10, 12, 14	Supply -



45246A/2



Technical data

Nominal cross section of connecting terminals
Rated voltage
Rated current
Contact material
Contact plating
Connector

Size W x H x D

Wiring interfaces DIN 41651 with interruption possibility

2.5 mm², AWG 24 - 14
24 V DC
100 mA
phosphor-bronze
gold-plated
14-pole, DIN 41651

60 x 83 x 58 mm

Both connector supply and 8 control lines can be interrupted.
With reverse battery diode and operating indicator.
ref = Reference-terminal block, can be set on + or -



Order numbers

45246A/2

Modules with D-Sub- / flat cable push-on connectors

with several parallel connectors (also mixed) , with/without terminals



Properties

- One or several D-Sub and / or flat cable (DIN41651) connectors are placed in parallel on a module with or without terminals
- The modules can be used for parallel connection of different cables
- Can be used for adding easy test points or junctions to cables through the PCB terminals
- Very flexible: connectors of different types can be mixed
- If both flat cable and D-Sub are mixed, the module is labelled according to the D-Sub connectors. The pin numbers of the flat cable is going zig-zag and in that case do not correspond to the terminal labels.
- If both flat cable and D-Sub are mixed, the last pin of the flat cable is connected to the shield
- The index in the order number shows the type of connectors on the module:
F = Flat cable, B = female D-Sub,
S = male D-Sub, K = terminals
- Can be mounted on DIN 35 mm-rails

Range



45479C/SBBK



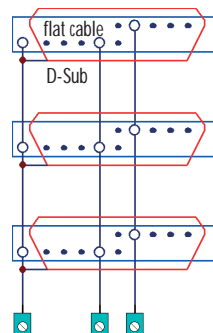
45480C/B BBB



45481C/FFK



45480C/BFK



Technical data

Max. voltage

Max. current for flat cable connector

Max. current for D-Sub connector

Surface of connector

D-Sub spacer thread

125 V

1 A

3 A

gold-plated

4 UNC

General data

Approvals

Operating temperature range

Nominal cross section of connecting terminals

Size of module 45479C/... L x W x H

(from rail)

Size of module 45480C/... L x W x H

(from rail)

Size of module 45481C/... L x W x H

(from rail)

CE

-25°C up to +50°C

2.5 mm² (AWG24 - 14)

40 x 83 x 62 mm

50 x 83 x 54 mm

75 x 83 x 54 mm



Order numbers

Module with 9-pol. D-Sub-plugs and/or 10-pol. flat cable connectors

Module with 15-pol. D-Sub-plugs and/or 16-pol. flat cable connectors

Module with 25-pol. D-Sub-plugs and/or 26-pol. flat cable connectors

45479C/XXXX

45480C/XXXX

45481C/XXXX

XXXX: F = flat cable, B = female D-Sub,
S = male D-Sub, K = terminal
(examples: see photographs above)

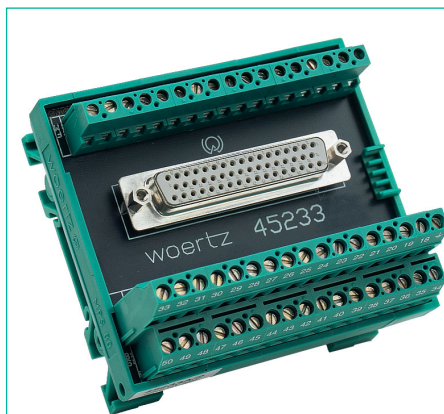
D-Sub Interfaces

on MPS 80 base element

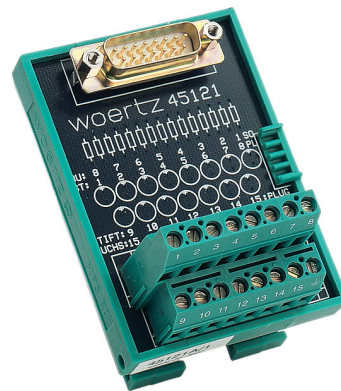


Properties

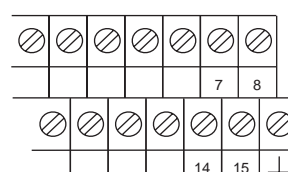
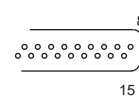
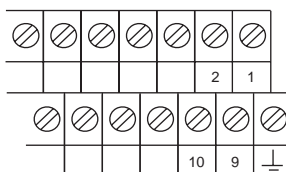
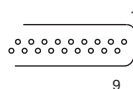
- D-Subminiature connector available with pin terminal blocks or sockets
- With 2 M3 threaded spacers for fixing the connector
- As standard the D-subminiature plug has a metal collar as protection against HF interference
- High mechanical security: the connector is screwed to the printed circuit board



45233A/2



45121A/1



Technical data

Nominal cross section of connecting terminals

Rated voltage

Rated current load

Operating temperature

Modules with sockets

2.5 mm² (AWG 24 - 14)

125 V AC

1.5 A

-20°C up to +40°C

Modules with pin terminal block

2.5 mm² (AWG 24 - 14)

125 V AC

1.5 A

-20°C up to +40°C



Order numbers

Size W x H x D

Number of poles

40 x 83 x 58 mm

9

60 x 83 x 58 mm

15

80 x 83 x 58 mm

25

110 x 83 x 58 mm

37

95 x 83 x 58 mm

50

45120C/2 (see also 45479C/BK*)

45121A/2 (see also 45480C/BK*)

45122A/2 (see also 45481C/BK*)

45123A/2

45233A/2

45120C/1 (see also 45479C/SK*)

45121A/1 (see also 45480C/SK*)

45122A/1 (see also 45481C/SK*)

45123A/1

45233A/1

* page 24.9



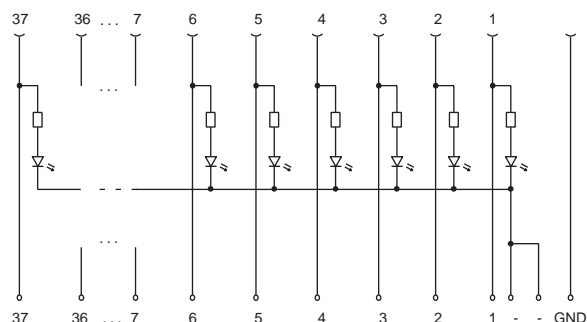
Properties

- Provided with 37-pole D-subminiature connector
- With 2 threaded spacers for fixing the connector
- As standard the subminiature plug has a metal collar as protection against HF interference
- High mechanical security: the connector strip is screwed to the printed circuit board



45206C/3

45206C/8



Technical data

Rated voltage
Rated current (per connection)
Indicator, red or green
LED current
Connector

Operating temperature
Size W x H x D



Order numbers

LED red
LED green

Modules with D-Sub pin terminal block

13 - 30 V DC
2 A
37 LED
2 - 5 mA (Low current LED)
37-pole

-20°C up to +40°C
130 x 83 x 58 mm

45206C/3
45206C/4

Modules with D-Sub sockets

13 - 30 V DC
2 A
37 LED
2 - 5 mA (Low current LED)
37-pole

-20°C up to +40°C
130 x 83 x 58 mm

45206C/7
45206C/8

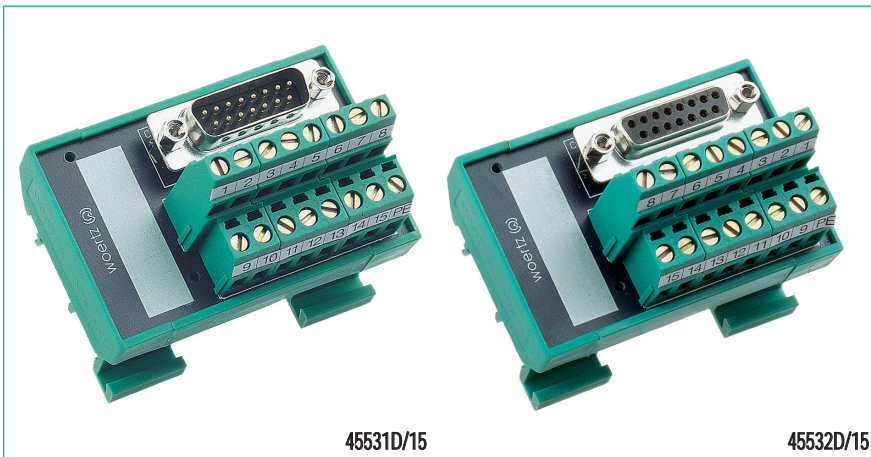
D-Sub Interfaces

on MPS 43 base element



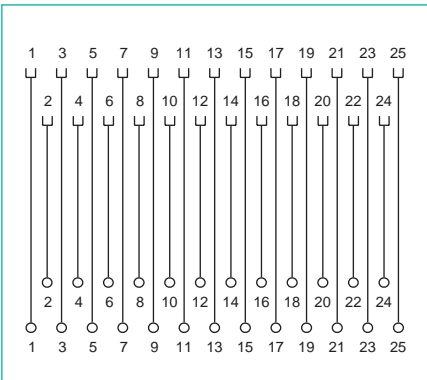
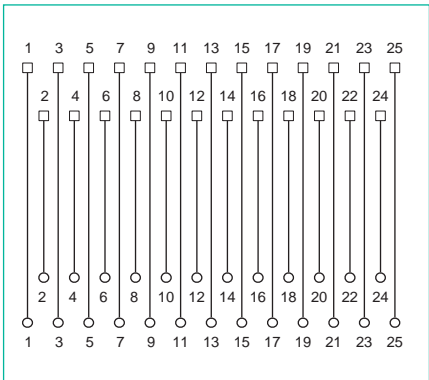
Properties

- D-Subminiature connector interface available with plug or socket
- As standard the subminiature connector has a metal collar as protection against HF interference
- With 2 threaded M3 spacers for fixing the connector
- High mechanical security: the connector strip is screwed to the printed circuit board
- Base element: MPS 43



45531D/15

45532D/15



Technical data

Rated voltage
Rated current load
Nominal cross section of connecting terminals
Operating temperature

Modules with pin terminal block

125 V AC/DC
2.5 A
2.5 mm²

-20°C up to +40°C

Modules with sockets

125 V AC/DC
2.5 A
2.5 mm²

-20°C up to +40°C



Order numbers

Size W x H x D	Number of poles
57 x 48 x 62 mm	9
70 x 48 x 62 mm	15
92 x 48 x 62 mm	25

45531D/9
45531D/15
45531D/25

45532D/9
45532D/15
45532D/25

**Properties**

- Interface module to plug type RJ11
- With audible plugging of connectors
- Versions with 1, 4 or 8 plugs
- With one plug or two parallel plugs
- Marking area provided
- Small-dimensioned due to three-step terminals
- Designation of terminals printed in white

**Accessories**

- 45294/20 labels 10x20mm
 45294/30 labels 10x30mm
 30276 base for clipping on to rail EN 60715 G32
 30269 base for screw attachment

**Technical data**

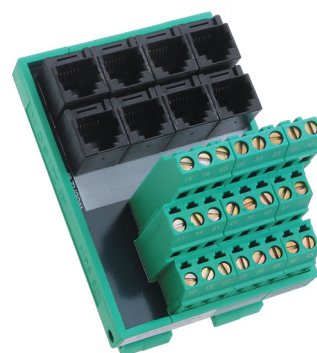
Type of plug
 Number of poles
 Max. voltage
 Continuous current
 Operating temperature range
 Nominal cross section of connecting terminals
 Size W x H x D

**Order numbers**

With one plug type RJ11
 With two parallel plugs type RJ11



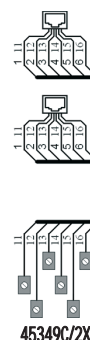
45349C/21



45349C/24



45349C/1X



45349C/2X

1 plug

FCC
 6 pole RJ11
 125 V AC
 max. 1.5 A
 -40°C up to + 60°C
 2.5 mm²
 20 x 83 x 67 mm

45349C/11
 45349C/21

4 plugs

FCC
 6 pole RJ11
 125 V AC
 max. 1.5 A
 -40°C up to + 60°C
 2.5 mm²
 60 x 83 x 67 mm

45349C/14
 45349C/24

8 plugs

FCC
 6 pole RJ11
 125 V AC
 max. 1.5 A
 -40°C up to + 60°C
 2.5 mm²
 115 x 83 x 67 mm

45349C/18
 45349C/28

RJ45 Interfaces

1:1 wiring



Properties

- Interface module to plug type RJ 45
- With audible plugging of connectors
- Versions with 1, 4 or 8 plugs
- With one plug or two parallel plugs
- Marking area provided for each plug
- Small-dimensioned thanks to three-step terminals
- Designation of terminals printed in white



Accessories

- 45294/20 labels 10 x 20mm
 45294/30 labels 10 x 30mm
 30276 base for clipping on to rail EN 60715 G32
 30269 base for screw attachment



Technical data

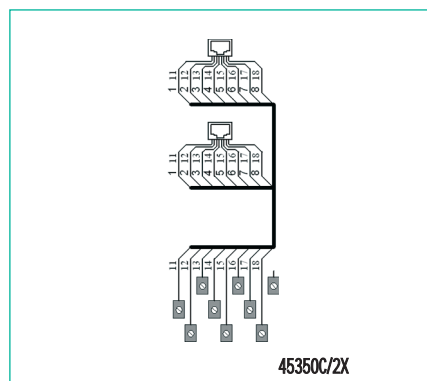
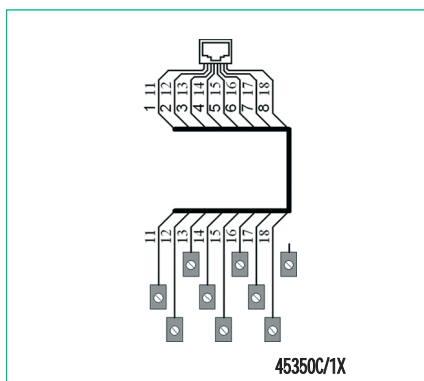
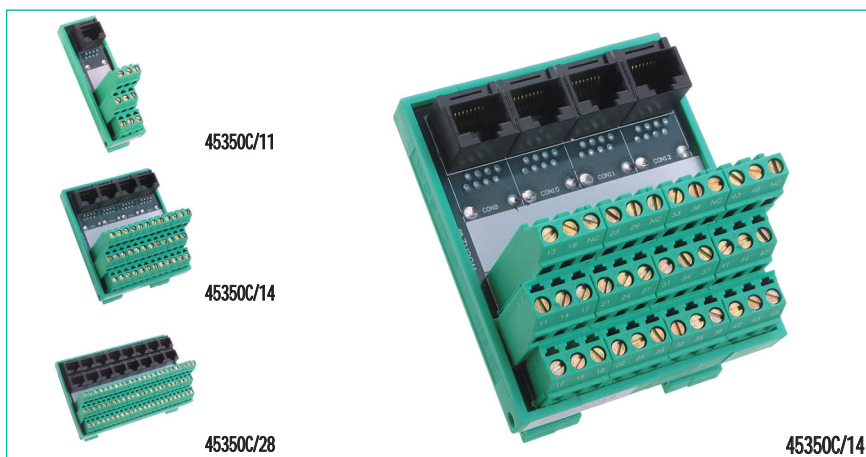
Type of plug
 Number of poles
 Max. voltage
 Continuous current
 Operating temperature range
 Nominal cross section of connecting terminals

Size W x H x D



Order numbers

With one plug type RJ45
 With two parallel plugs type RJ45



1 plug

FCC
 8 pole (RJ45)
 125 V AC
 max. 1.5 A
 -40°C up to +60°C
 2.5 mm²

25 x 83 x 67 mm

45350C/11
 45350C/21

4 plugs

FCC
 8 pole (RJ45)
 125 V AC
 max. 1.5 A
 -40°C up to +60°C
 2.5 mm²

70 x 83 x 67 mm

45350C/14
 45350C/24

8 plugs

FCC
 8 pole (RJ45)
 125 V AC
 max. 1.5 A
 -40°C up to +60°C
 2.5 mm²

130 x 83 x 67 mm

45350C/18
 45350C/28

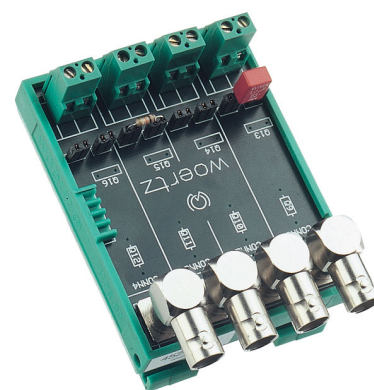


Properties

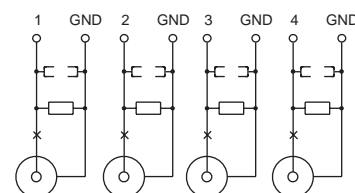
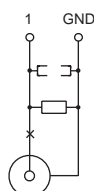
- With BNC sockets and terminals
- Metallic BNC connector, at 90° angle
- With receptacles for impedance adjustment, overvoltage protection components, etc. or as test points.
- By cutting of a conductor on the printed circuit board, a serial component can be added



45298C/1



45295A/4



Technical data

Nominal cross section of connecting terminals
BNC impedance
Lifetime
Operating temperature
Max. diameter of connector

Size W x H x D

1-pole

2.5 mm² (AWG 24 - 14)
50 - 75 Ω
500 disconnections
-25°C up to +70°C

20 x 83 x 44 mm

45298C/1
45298C/1S

4-pole

2.5 mm² (AWG 24 - 14)
50 - 75 Ω
500 disconnections
-25°C up to +70°C
15 mm

65 x 83 x 44 mm

45295A/4
45295A/4S



Order numbers

with pluggable terminals

BNC Interfaces

75 Ω , 4 poles, isolated



Properties

- Four feedthrough BNC couplers mounted on an angle retaining plate of aluminium
- BNC couplers insulated from each other
- Marking area 10 x 64 mm
- For clipping on to mounting rails according to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



On request

BNC connector with 50 Ω impedance



Technical data

Type of connector
Impedance
Housing
Insulating ring
Central contact
Material of angle retaining plate
Material of snap-on mounting
Max. diameter of connector plug

Size W x H x D



Order numbers

4 poles, impedance 75 Ω



45456J/4

BNC feedthrough coupler
75 Ω
nickel-plated
nylon
gold-plated
aluminium
thermoplastic
20 mm

80 x 69 x 44 mm

45456J/4



Properties

- Interface module between terminals for printed circuit boards and plug connector
- Different versions available

Range



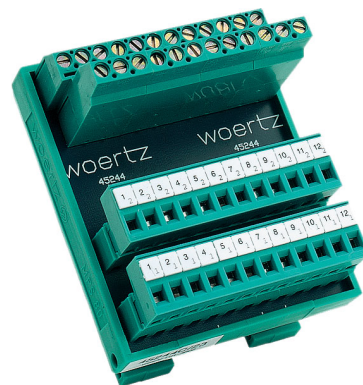
45244A/1



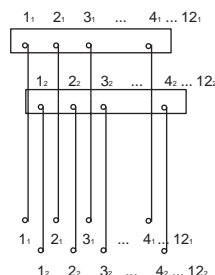
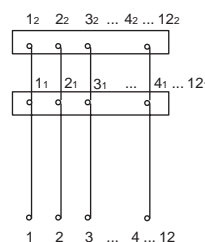
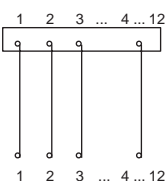
45244C/12



45244C/23



45244C/23



Technical data

Rated voltage
Rated current
Connection cross section
PCB connectors
PCB terminals
Insulation free part of wire
Tightening torque
Flammability classification
Operating temperature

1 PCB connector

250 V AC
10 A
1.5 mm² (AWG 24 - 16)
2.5 mm² (AWG 24 - 14)
7 mm
0.5 Nm
UL 94 - V2
-30°C up to +70°C

2 parallel PCB connectors

250 V AC
10 A
1.5 mm² (AWG 24 - 16)
2.5 mm² (AWG 24 - 14)
7 mm
0.5 Nm
UL 94 - V2
-30°C up to +70°C

2 PCB connectors

250 V AC
10 A
1.5 mm² (AWG 24 - 16)
2.5 mm² (AWG 24 - 14)
7 mm
0.5 Nm
UL 94 - V2
-30°C up to +70°C



Order numbers

Size W x H x D	Number of poles
30 x 83 x 46	4
40 x 83 x 46	6
50 x 83 x 46	8
60 x 83 x 46	10
70 x 83 x 46	12
30 x 83 x 46	4/8
40 x 83 x 46	6/12
50 x 83 x 46	8/16
60 x 83 x 46	10/20
70 x 83 x 46	12/24
30 x 83 x 58	8
40 x 83 x 58	12
50 x 83 x 58	16
60 x 83 x 58	20
70 x 83 x 58	24

45244A/1
45244C/5
45244A/11
45244A/15
45244A/21

45244C/2
45244C/6
45244C/12
45244C/16
45244C/22

45244C/3
45244C/7
45244C/13
45244C/17
45244C/23

Interfaces for proximity switches

for shielded proximity switches with 3 conductors



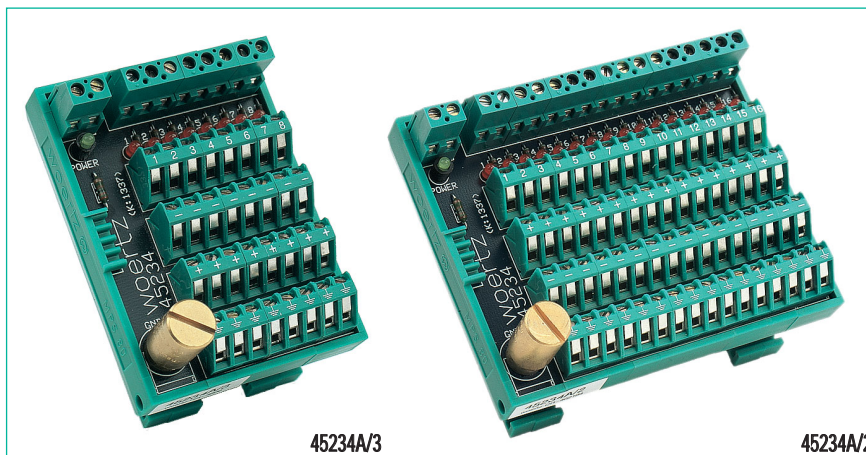
Properties

- For NPN or PNP proximity switches
- LED for each proximity switch
- Clear, rational installation
- Separate supply terminals and separate earth conductor terminals for each proximity switch
- Sheath terminal for fixing the earth conductor



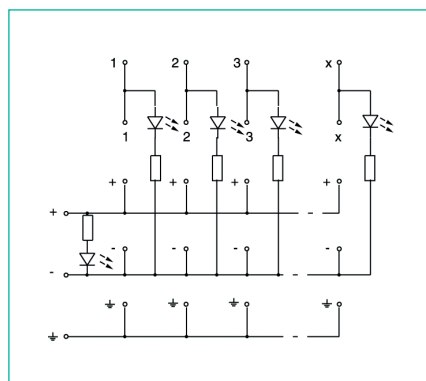
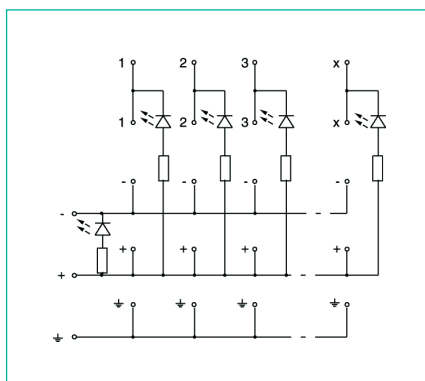
Accessories

45294/20 labels 10 x 20 mm
45294/30 labels 10 x 30 mm



45234A/3

45234A/2



Technical data

Supply voltage
Supply current
Load of proximity switches through LEDs
Max. signal current

Connections per proximity switch

General data

Operating temperature range
Nominal cross section of 45° prox. switch terminals
Nominal cross section of connecting terminals
Nominal cross section of sheath terminal
Size W x D



Order numbers

4-pole length 40 mm
8-pole length 60 mm
16-pole length 100 mm

for NPN proximity switches

(active 0 V)

24 V DC
max 8 A
2 mA
2 A / proximity switch
The sum of signal currents should not exceed 8 A
24 V DC / 0 V / Earth conductor of prox. switch / Output of prox. switch

-30°C up to +70°C
1.5 mm²
2.5 mm²
0 - 6 mm²
83 x 48 mm

for PNP proximity switches

(active +24 V)

24 V DC
max 8 A
2 mA
2 A / proximity switch
The sum of the signal currents must not exceed 8 A
24 V DC / 0 V / Earth conductor of prox. switch / Output of prox. switch

-30°C up to +70°C
1.5 mm²
2.5 mm²
0 - 6 mm²
83 x 48 mm

when active about +24 V

45234C/5
45234A/3
45234A/1

45234C/6
45234A/4
45234A/2

Modules for proximity switches

for proximity switches with 2 conductors



Properties

- For 2 wire probes, NPN or PNP (NPN has active 0 V, PNP has active plus)
- For NC and NO contacts
- Clear, rational installation
- Marking area for each proximity switch 5 x 22 mm
- Marking area for the module 11 x 50 mm
- NPN versions with Pull Up resistors, PNP versions with Pull Down resistors
- Connection through 2-step terminals which allow saving of space
- For clipping on mounting rails according to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



Accessories

- For LED indicating on state, the modules series 45416 are recommended



Technical data

Supply voltage range
Supply current
Resistors
Load current through resistors
Max. signal current

Connections per proximity switch

General data

Operating temperature range
Nominal cross section of connecting terminals
Size (H x D)

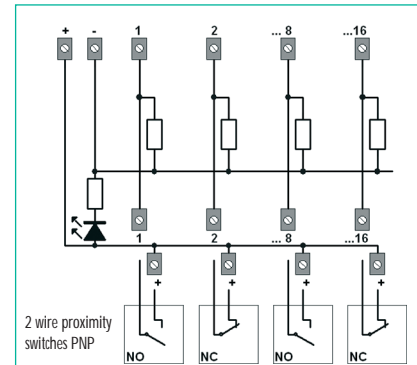
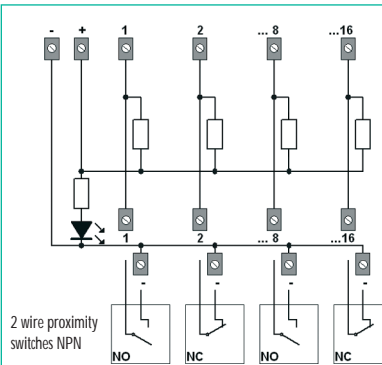


Order numbers

8-pole length 60 mm
16-pole length 100 mm



45415C/16N



NPN

12 - 40 V DC
max. 8 A
3 k Ω pull up
8 mA at 24 V DC
2 A/ proximity switch
The sum of signal currents should not exceed 8 A
Minus and Signal

-30°C up to 70°C
2.5 mm²
83 x 54 mm

45415C/08N
45415C/16N

PNP

12 - 40 V DC
max. 8 A
3 k Ω pull down
8 mA at 24 V DC
2 A/ proximity switch
The sum of signal currents should not exceed 8 A
Plus and Signal

-30°C up to 70°C
2.5 mm²
83 x 54 mm

45415C/08P
45415C/16P

Modules for proximity switches

for proximity switches with 2 and 3 conductors



Properties

- For 2- or 3-wire, NPN or PNP proximity switches (NPN has active 0 V, PNP has active plus)
- Clear, rational installation
- Marking area for each proximity switch 5 x 20 mm
- Marking area for the module 11 x 50 mm
- With green LED indicating on state
- Available with yellow LED indicating on state for proximity switches
- Connection through 3-step terminals which allow saving of space
- For clipping on mounting rails according to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



Miscellaneous

For 2 wire probes, series 45415 (without LED) with integrated Pull-up resp. Pull-down resistances are recommended.



Technical data

Supply voltage range
Supply current
Load current through LED's
Color of the LED indicating on state
Max. signal current

Connections per proximity switches

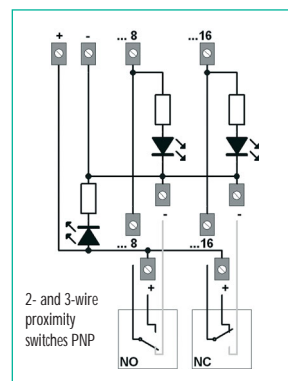
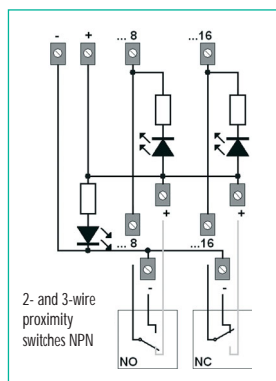
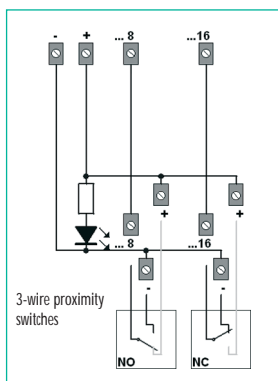
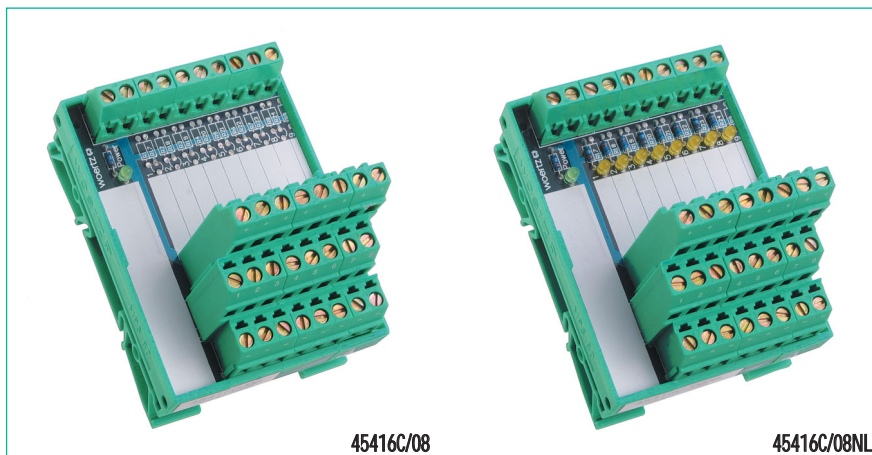
General data

Operating temperature range
Nominal cross section of connecting terminals
Size (H x D)



Order numbers

8-pole length 60 mm
16-pole length 100 mm



Neutral

12 - 40 V DC
max. 8 A

2 A / proximity switch
The sum of signal currents
should not exceed 8 A
+ / - / Signal

-20°C up to +45°C
2.5 mm²
83 x 67 mm

45416C/08
45416C/16

NPN

12 - 40 V DC
max. 8 A
4 mA
yellow

2 A / proximity switch
The sum of signal currents
should not exceed 8 A
+ / - / Signal

-20°C up to +45°C
2.5 mm²
83 x 67 mm

45416C/08NL
45416C/16NL

PNP

12 - 40 V DC
max. 8 A
4 mA
yellow

2 A / proximity switch
The sum of signal currents
should not exceed 8 A
+ / - / Signal

-20°C up to +45°C
2.5 mm²
83 x 67 mm

45416C/08PL
45416C/16PL

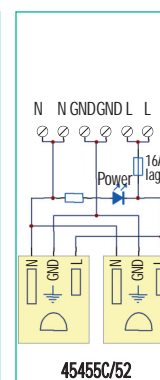
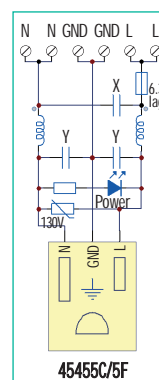
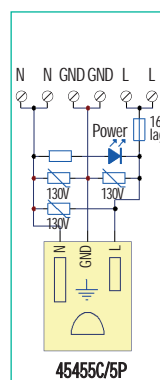
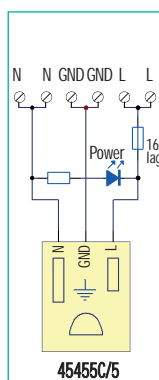
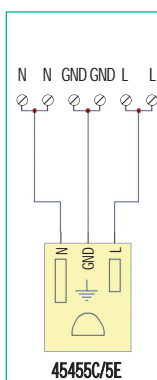


Properties

- Modules with USA power outlet socket. Supplied with AC power through PCB terminals.
- Module with integrated 5 x 20 mm fuse (except version 45455C/5E). The fuse can easily be removed by hand, by turning the fuse holder knob, thus also filling the function of a circuit breaker (breaks the "L" path).
- An integrated LED shows when power is present at the outlet socket
- Two input terminals are connected in parallel for each path. Makes it easy to loop to other units.
- Economy version available with only terminals and socket (45455C/5E).
- Version available with overvoltage protection (45455C/5P). Both common mode (referred to earth) and differential mode (between L and N) are protected.
- Version available with an EMC suppression filter added on the module (45455 C/5F). The current is limited to 6.3A. This version also has an integrated differential overvoltage protection.
- Also available: version with two outlet sockets (45455C/52).
- For clipping on DIN 35 mm rails



45455C/52



Technical data

Output

Max. AC voltage
Max. current for 45455C/5, 45455C/5P and 45455C/52
Max. current for 45455C/5E (without fuse)
Max. current for 45455C/5F
LED

General data

Approvals
Temperature range

Nominal cross section of connecting terminals
Size L x W x H (from rail)



Order numbers

Module without fuse and LED
Module with fuse and LED
Module with fuse, LED and overvoltage protection
Module with fuse, LED, EMC filter and overvoltage protection
Module with fuse, LED and two outlet sockets

125 V AC
15 A (fuse 16 A lag)

15 A (must be externally fused)
6.3 A (fuse 6.3 A lag)
green: power on output socket

CE
-25°C up to +40°C (at higher temperature: please contact factory)

2.5 mm² (AWG24 - 14)
40 x 83 x 62 mm

45455C/5E
45455C/5
45455C/5P
45455C/5F

45455C/52

Appliance outlet module

Low cost version. Optional with power indication and fuse, overvoltage protection, EMC filter or two sockets

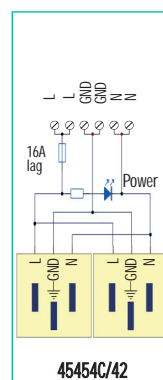
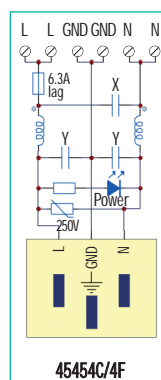
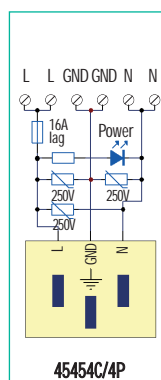
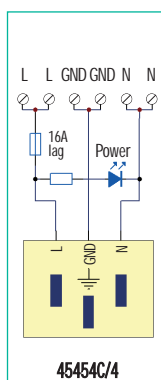
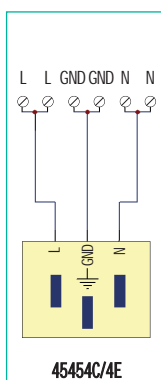


Properties

- Module with power outlet socket. Supplied with AC power through PCB terminals.
- Module with integrated 5x20mm fuse (except low cost version). The fuse can easily be removed by hand, by turning the fuse holder knob, thus also filling the function of a circuit breaker (breaks the "L" path).
- An integrated LED shows when power is present at the outlet socket.
- Two input terminals are connected in parallel for each path. Makes it easy to loop to other units.
- Economy version available with only terminals and socket (45454C/4E).
- Version available with overvoltage protection (45454C/4P). Both common mode (referred to earth) and differential mode (between L and N) are protected.
- Version available with an EMC suppression filter added on the module (45454C/4F). The current is limited to 6.3A. This version also has an integrated differential overvoltage protection.
- Version available with two outlet sockets (45454C/42).
- For clipping on DIN 35 mm rails



45454C/4



Technical data

Output

Max. AC voltage

Max. current for 45454C/4, 45454C/4P and 45454C/42

Max. current for 45454C/4E (without fuse)

Max. current for 45454C/4F

LED

General data

Approvals

Temperature range

Nominal cross section of connecting terminals

Size L x W x H (from rail)



Order numbers

Module without fuse and LED

Module with fuse and LED

Module with fuse, LED and overvoltage protection

Module with fuse, LED, EMC filter and overvoltage protection

Module with fuse, LED and two outlet sockets

250 V AC *

10 A (Fuse 10 A lag) *

10 A (must be externally fused) *

6.3 A (Fuse 6.3 A lag)

green: power on output socket

CE

-25°C up to +40°C (at higher temperature: please contact factory)

2.5 mm² (AWG24 - 14)

40 x 83 x 62 mm

45454C/4E

45454C/4

45454C/4P

45454C/4F

45454C/42

* For USA, Canada: 125V/ 15A



Properties

- Ready-to-use cable
- Available in different length and pole number
- For wiring relay modules or interfaces to PLC
- Cable of PVC, flammability classification to UL VW-1
- Connector of glass-fibre reinforced polyester, flammability classification to UL 94 V-0



45243/10



45240/20

Wiring 1:1

Wiring 1:1



Technical data

Structure of the conductors

Copper tinsel conductor

Designation

Insulating voltage

Insulating resistance

Max. current

Operating temperature

Flat cable

AWG 28, 7 x 36

0.09 mm²

tinned

Red strip on conductor 1

Arrow on connector

300 V

> 1 x 10¹⁰ Ω / 3 m

1 A

-20°C up to +105°C

Round cable

AWG 28, 7 x 36

0.09 mm²

tinned

Red strip on conductor 1

Arrow on connector

300 V

> 1 x 10¹⁰ Ω / 3 m

1 A

-20°C up to +80°C



Order numbers

Number of poles	10
	14
	16
	20
	24
	30
	34
	40
	50
	60
	64

45243/10
45243/14
45243/16
45243/20
45243/24
45243/30
45243/34
45243/40
45243/50
45243/60
45243/64

45240/10
45240/14
45240/16
45240/20
45240/24
45240/30
45240/34
45240/40
45240/50
45240/60
45240/64

