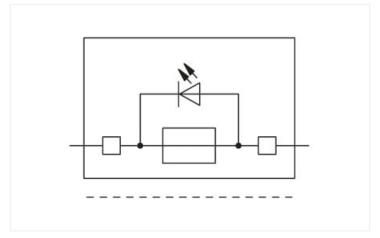
Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; with

LED indicator; 6 mm wide; gray

https://www.wago.com/281-512/281-977







Color: ■ gray

Similar to illustration

Similar to illustration 281-512/281-501

Fuse plug, 281 Series, gray

This fuse plug (item number 281-512/281-977) simplifies electrical installations. The gray housing is made of polyamide (PA66) for insulation.

Electrical data		
Ratings per IEC/EN		R
Nominal voltage (III/3)	24 V	Ra
Rated current	6.3 A	
Operation status indicator	None	Ra

Ratings per IEC/EN – Notes	
Ratings (note)	Electrical ratings are given by the fuse and blown fuse indication.
Rated current (note)	Leakage current in case of a blown fuse: LED 0.016 0.034 mA

Power Loss	
Power loss (max.) P _{I (max.)} (note)	When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers

General information	
Voltage type 1	DC
Fuse type	Cylindrical fuse; $5 \times 20 \text{ mm}$ and $5 \times 25 \text{ mm}$

Physical data

Width 6 mm / 0.236 inches

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Approvals / Certificates



Mechanical data Marking level Center marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.076 MJ
Weight	6.5 g

Environmental requirements Continuous operating temperature -60 ... +105 °C

Commercial data	
eCl@ss 10.0	27-14-11-49
eCl@ss 9.0	27-14-11-49
ETIM 9.0	EC002018
ETIM 8.0	EC002018
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143464680
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

General approvals		Declarations of confor	Declarations of conformity and manufacturer's declarations		
CCA KEMA			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity	-	-
KEMA/KEUR	EN 60947	NTR NL-7135	WAGO GmbH & Co. KG		
DEKRA Certification B.V. KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.31	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

https://www.wago.com/281-512/281-977



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 281-512/281-977



Documentation

Additional Information

Technical Section

2246.92 KB

CAD/CAE-Data

CAD data

2D/3D Models 281-512/281-977



1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper



Item No.: 281-503

Short circuit jumper; for fuse holder; silvercolored

1.1.2 Marking

1.1.2.1 Marker



Item No.: 794-4615

WMB marking card; as card; MARKED; F1, ..., F10 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white

Item No.: 794-4619

WMB marking card; as card; MARKED; F41, ..., F50 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white

Item No.: 793-4501/000-023

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green

Item No.: 794-4616

WMB marking card; as card; MARKED; F11, ..., F20 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



Item No.: 793-4501/000-006

Item No.: 793-4501/000-012

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue

WMB marking card; as card; stretchable

4 - 4.2 mm; plain; snap-on type; orange



WMB marking card; as card; stretchable



Item No.: 794-4617

WMB marking card; as card; MARKED; F21, ..., F30 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



Item No.: 793-4501/000-014

4 - 4.2 mm; plain; snap-on type; brown



Item No.: 793-4501/000-007

Item No.: 794-4618

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; gray

WMB marking card; as card; MARKED;

Vertical marking; snap-on type; white

F31, ..., F40 (10x); stretchable 4 - 4.2 mm;



Item No.: 793-4501/000-005

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; red



Item No.: 793-4501/000-024

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; violet

https://www.wago.com/281-512/281-977

1.1.2.1 Marker









Item No.: 793-4501

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white

Item No.: 793-4501/000-002

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

Item No.: 2009-114/000-006

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; blue

a

Item No.: 2009-114/000-007

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray

A





WMB-Inline; for Smart Printer; 2000 pie-

ces on roll; stretchable 4 - 4.2 mm; plain;

Item No.: 2009-114/000-005

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type: red

Item No.: 2009-114/000-024

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet

Item No.: 2009-114/000-023

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; green

Item No.: 2009-114/000-012

snap-on type; orange

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white

Item No.: 2009-114/000-002

1.1.3 Terminal blocks

Item No.: 2009-114

1.1.3.1 Carrier terminal block









Item No.: 280-531

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; blue/gray

Item No.: 280-514

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray/gray

Item No.: 280-528

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray

Item No.: 280-532

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; blue/gray



Item No.: 280-891

Item No.: 281-917

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm2; gray/gray

Item No.: 280-510

Triple-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; green-yellow/blue/ arav

Item No.: 280-889

Triple-deck terminal block; with additional jumper position on lower level; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm2; gray/gray/gray

1.1.3.2 Carrier terminal block for modules and plugs



2-conductor carrier terminal block; for

GE CLAMP®; 4,00 mm²; blue

DIN-rail 35 x 15 and 35 x 7.5; 4 mm²; CA-



Item No.: 281-916 2-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm2; CA-GE CLAMP®; 4,00 mm²; gray

Item No.: 281-610

3-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm2; CA-GE CLAMP®; 4,00 mm²; gray



Item No.: 281-656

4-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm2; CA-GE CLAMP®; 4,00 mm²; gray

1.1.3.3 Double-deck terminal block





Item No.: 280-528 Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE

CLAMP®; 2,50 mm2; gray/gray

Item No.: 280-532

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; blue/gray



35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; blue/gray

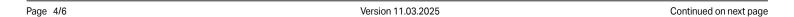
Item No.: 280-514

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray



Item No.: 280-891

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray/gray



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1.1.3.4 Triple-deck terminal block





Item No.: 280-510

Triple-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; green-yellow/blue/ gray

Item No.: 280-889

Triple-deck terminal block; with additional jumper position on lower level; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray/gray/gray

Installation Notes



Length of carrier terminal blocks with a fuse plug:

73.5 mm / 2.89 inch für 281-610

Testing



Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug" Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 6 mm
- May be used as a disconnect plug in combination with a shorting link

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When a corresponding neutral circuit is adjacent to the fuse plug, a 5 mm wide space-saving terminal block may be used as a 6 mm fuse plug may overlap the terminal block (see diagram).

For example, 5 mm (0.197 inch) wide carrier terminal blocks can be used with an end

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$