

# ST 16-TWIN-PE - Ground terminal



3035344  
<https://www.phoenixcontact.com/us/products/3035344>

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Ground terminal, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 16 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 25 mm<sup>2</sup>, mounting type: NS 35/15, NS 35/7,5, color: green-yellow

## Your advantages

- Additional labeling options
- Corrosion-free terminal points
- Low contact resistance
- Green-yellow housing

## Commercial data

Item number	3035344
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	BE02
Product key	BE2122
Catalog page	Page 247 (C-1-2019)
GTIN	4046356100922
Weight per piece (including packing)	67.298 g
Weight per piece (excluding packing)	66.64 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	Ground terminal block
Number of connections	3
Number of rows	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	2.43 W

### Connection data

Grounding foot	Yes
Number of connections per level	3
Nominal cross section	16 mm <sup>2</sup>

### Level 1 above 1+2 below 1

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	18 mm
Internal cylindrical gage	A7
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Cross section AWG	24 ... 4 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Nominal cross section	16 mm <sup>2</sup>

### Dimensions

Width	12.2 mm
End cover width	2.2 mm
Height	107.8 mm
Depth on NS 35/7,5	51.5 mm
Depth on NS 35/15	59 mm

### Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

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Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

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Connection in acc. with standard	IEC 60947-7-2
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## Mounting

Mounting type	NS 35/15
	NS 35/7,5

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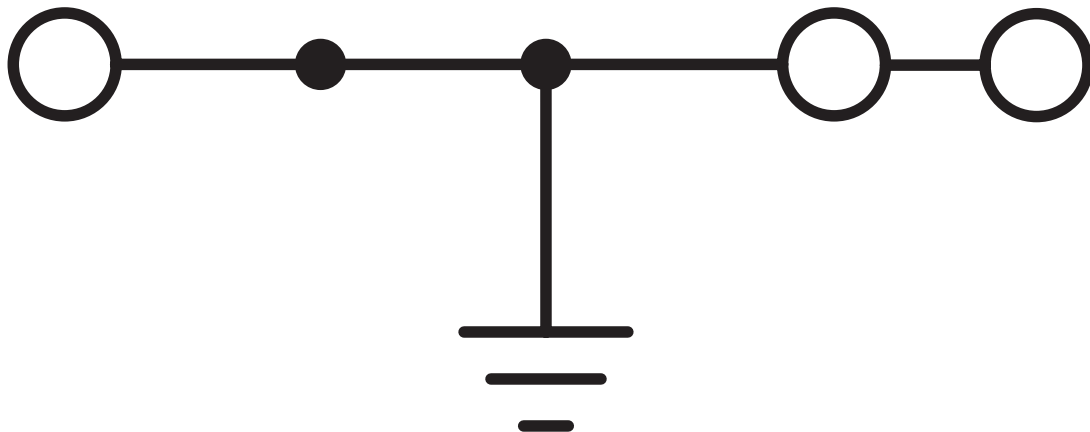
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## Drawings

Circuit diagram



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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3035344>





**IECEE CB Scheme**  
Approval ID: DE1-62961



**BV**  
Approval ID: 13403/D0 BV

	<div><b>VDE Zeichengenehmigung</b> Approval ID: 40019422</div>			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	-	76 A	-	1.5 - 16

	<div><b>cULus Recognized</b> Approval ID: E60425</div>			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	-	-	16 - 4	-
Use group C				
	-	-	16 - 4	-



**EAC Ex**  
Approval ID: RU C-DE.HA91.B.00066

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## Classifications

### ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

### ETIM

ETIM 9.0	EC000901
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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## Accessories

### FBS 2-12 - Plug-in bridge

3005950

<https://www.phoenixcontact.com/us/products/3005950>



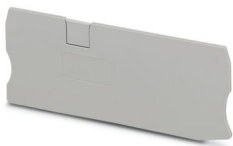
Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

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### D-ST 16-TWIN - End cover

3035357

<https://www.phoenixcontact.com/us/products/3035357>



End cover, depth: 44 mm, width: 2.2 mm, height: 108 mm, color: gray

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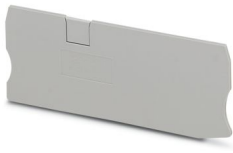


## D-ST 16-TWIN OG - End cover

3035358

<https://www.phoenixcontact.com/us/products/3035358>

End cover, depth: 44 mm, width: 2.2 mm, height: 108 mm, color: orange



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## LPS-12/E - Service connector

3270600

<https://www.phoenixcontact.com/us/products/3270600>

Service connector, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, color: red



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## LPS-12 - Service connector

3270601

<https://www.phoenixcontact.com/us/products/3270601>



Service connector, cross section: 0.14 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: red

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## LPO 16/E - Pick-off plug

3270531

<https://www.phoenixcontact.com/us/products/3270531>



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: gray

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## LPO 16 - Pick-off plug

3270532

<https://www.phoenixcontact.com/us/products/3270532>



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: gray

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## NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/us/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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<https://www.phoenixcontact.com/us/products/3035344>



## NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

<https://www.phoenixcontact.com/us/products/0801681>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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## NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

<https://www.phoenixcontact.com/us/products/1204119>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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## NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/us/products/1204122>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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## NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

<https://www.phoenixcontact.com/us/products/0801704>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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## NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

<https://www.phoenixcontact.com/us/products/1206421>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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## NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

<https://www.phoenixcontact.com/us/products/1206434>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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## NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/us/products/0801762>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

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## NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/us/products/1206560>

DIN rail end piece, for DIN rail NS 35/7.5





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### ZB 12:UNPRINTED - Zack marker strip

0812120

<https://www.phoenixcontact.com/us/products/0812120>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

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### ZB 12 CUS - Zack marker strip

0824942

<https://www.phoenixcontact.com/us/products/0824942>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

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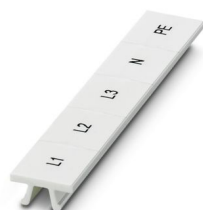
<https://www.phoenixcontact.com/us/products/3035344>



## ZB 12,LGS:L1-N,PE - Zack marker strip

0812146

<https://www.phoenixcontact.com/us/products/0812146>



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

## UC-TM 12 - Marker for terminal blocks

0819194

<https://www.phoenixcontact.com/us/products/0819194>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

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### UC-TM 12 CUS - Marker for terminal blocks

0824613

<https://www.phoenixcontact.com/us/products/0824613>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

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### UCT-TM 12 - Marker for terminal blocks

0829144

<https://www.phoenixcontact.com/us/products/0829144>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

## ST 16-TWIN-PE - Ground terminal

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## UCT-TM 12 CUS - Marker for terminal blocks

0829630

<https://www.phoenixcontact.com/us/products/0829630>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

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## ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

<https://www.phoenixcontact.com/us/products/0809735>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

## ST 16-TWIN-PE - Ground terminal

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## ZBF 12 CUS - Zack Marker strip, flat

0825018

<https://www.phoenixcontact.com/us/products/0825018>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

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## UC-TMF 12 - Marker for terminal blocks

0819233

<https://www.phoenixcontact.com/us/products/0819233>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

## ST 16-TWIN-PE - Ground terminal

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### UC-TMF 12 CUS - Marker for terminal blocks

0824670

<https://www.phoenixcontact.com/us/products/0824670>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

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### UCT-TMF 12 - Marker for terminal blocks

0829214

<https://www.phoenixcontact.com/us/products/0829214>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30

## ST 16-TWIN-PE - Ground terminal

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## UCT-TMF 12 CUS - Marker for terminal blocks

0829686

<https://www.phoenixcontact.com/us/products/0829686>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30

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## MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

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<https://www.phoenixcontact.com/us/products/3035344>



### MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



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### MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red





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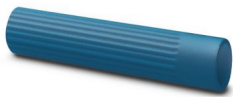


### MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



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### MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



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## MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



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## E/AL-NS 35 - End bracket

1201662

<https://www.phoenixcontact.com/us/products/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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## SZF 3-1,0X5,5 - Screwdriver

1206612

<https://www.phoenixcontact.com/us/products/1206612>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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## WST 10/35 - Warning cover

3030006

<https://www.phoenixcontact.com/us/products/3030006>

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



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