

# Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

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Sensor/actuator terminal block, with green light indicator, Connection method: Push-in connection, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

The illustration shows the version without LED/light indicator

## Why buy this product

- ✓ The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection



## Key Commercial Data

Packing unit	50 STK
GTIN	
GTIN	4046356735353
Custom tariff number	85369010

## Technical data

### General

Number of levels	3
Number of connections	4
Potentials	3
Nominal cross section	1.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Maximum load current	13.5 A
Rated surge voltage	4 kV
LED voltage range	15 V DC ... 24 V AC

# Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

## Technical data

### General

LED current range	0.31 mA ... 0.95 mA
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	13.5 A
Nominal current I <sub>N</sub>	13.5 A
Nominal voltage U <sub>N</sub>	250 V
Open side panel	Yes
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

### Dimensions

Width	3.5 mm
End cover width	2.2 mm
Length	74.4 mm
Height NS 35/7,5	41.5 mm
Height NS 35/15	49 mm

### Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>

# Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

## Technical data

### Connection data

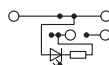
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	1 mm <sup>2</sup>
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1

### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

## Drawings

Circuit diagram



## Approvals

### Approvals

#### Approvals

EAC / CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details


EAC		7500651.22.01.00246
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CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current I <sub>N</sub>	10 A	15 A	10 A


# Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436


## Approvals

	B	C	D
Nominal voltage UN	300 V	150 V	300 V

UL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 60425			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current IN	15 A	15 A	10 A
Nominal voltage UN	300 V	150 V	300 V

cUL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 60425			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current IN	15 A	15 A	10 A
Nominal voltage UN	300 V	150 V	300 V

EAC  EAC-Zulassung
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cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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## Accessories

### Accessories

#### DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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End cap - NS 35/ 7,5 CAP - 1206560



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

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DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Width: 35 mm, Height: 15 mm, Length: 2000 mm, Color: silver

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### Documentation

Mounting material - PT-IL - 3208090



Operating decal for the push-in Technology

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### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray



## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End cover

End cover - D-PTIO 1,5/S/3 - 3244575



End cover, Length: 74.4 mm, Width: 2.2 mm, Height: 33.8 mm, Color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

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Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

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### Jumper

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Plug-in bridge - FBS 2-3,5 - 3213014



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 2, Color: red

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Plug-in bridge - FBS 3-3,5 - 3213027



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-3,5 - 3213030



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-3,5 - 3213043



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-3,5 - 3213056



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 10, Color: red

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Plug-in bridge - FBS 20-3,5 - 3213069



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-3,5 - 3000706



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 50, Color: red

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Plug-in bridge - FBS 2-3,5 BU - 3213086



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 2, Color: blue

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Plug-in bridge - FBS 3-3,5 BU - 3213099



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 3, Color: blue

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Plug-in bridge - FBS 4-3,5 BU - 3213109



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 4, Color: blue

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Plug-in bridge - FBS 5-3,5 BU - 3213112



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 5, Color: blue

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Plug-in bridge - FBS 10-3,5 BU - 3213125



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 10, Color: blue

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Plug-in bridge - FBS 20-3,5 BU - 3213138



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 20, Color: blue

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Plug-in bridge - FBS 50-3,5 BU - 3000708



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 50, Color: blue

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Plug-in bridge - FBS 2-3,5 GY - 3213153



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 2, Color: gray

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Plug-in bridge - FBS 3-3,5 GY - 3213167



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 3, Color: gray

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Plug-in bridge - FBS 4-3,5 GY - 3213180



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 4, Color: gray

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Plug-in bridge - FBS 5-3,5 GY - 3213183



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 5, Color: gray

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Plug-in bridge - FBS 10-3,5 GY - 3213196



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 10, Color: gray

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Plug-in bridge - FBS 20-3,5 GY - 3213206



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 20, Color: gray

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Plug-in bridge - FBS 50-3,5 GY - 3000707



Plug-in bridge, Pitch: 3.5 mm, Number of positions: 50, Color: gray

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### Labeled terminal marker

Zack Marker strip, flat - ZBF 3,5 CUS - 0829394



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: 3.5 mm, Lettering field: 3.5 x 5.2 mm

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Zack Marker strip, flat - ZBF 3,5,LGS:FORTL.ZAHLEN - 0801406



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm

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Zack Marker strip, flat - ZBF 3,5,QR:FORTL.ZAHLEN - 0801407



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm

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Marker for terminal blocks - UCT-TMF 3,5 CUS - 0829644



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: 3.5 mm, Lettering field: 2.7 x 4.7 mm

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### Partition plate

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Spacer plate - DP PS-3,5 - 3031011



Spacer plate, Length: 15.9 mm, Width: 3.5 mm, Height: 33.5 mm, Number of positions: 1, Color: red

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### Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

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Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

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### Screwdriver tools

Screwdriver - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S

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### Terminal marking

Marker for terminal blocks - UCTU-TM (3,5X7) - 0803666



Marking material specially for PTIO 1.5/S... terminal block range

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## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Zack Marker strip, flat - ZBF 3,5:UNBEDRUCKT - 0829392



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 3.5 x 5.2 mm

Marker for terminal blocks - UCT-TMF 3,5 - 0829486



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 2.7 x 4.7 mm

Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, Color: silver

Test plugs - PS-3,5 - 3031010



Test plugs, Color: red

Test plugs - PS-3,5/E - 3031012



Test plugs, Color: red

Additional products

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 GN - 3244436

### Accessories

Sensor/actuator terminal block - PTIO-IN 2,5/3-LED 24 GN - 3244561



Sensor/actuator terminal block, Connection method: Push-in connection, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Width: 7 mm, Color: orange, Mounting type: NS 35/7,5, NS 35/15

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Sensor/actuator terminal block - PTIO-IN 2,5/3 OG - 3244559



Sensor/actuator terminal block, Connection method: Push-in connection, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Width: 7 mm, Color: orange, Mounting type: NS 35/7,5, NS 35/15

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