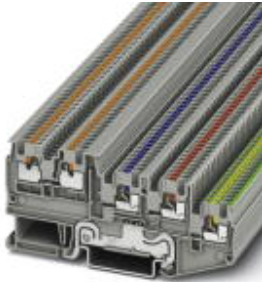


Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

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Sensor/actuator terminal block, with red LED display and protective conductor function, Connection method: Push-in connection, Number of connections: 5, Cross section: 0.14 mm² - 1.5 mm², AWG: 26 - 14, Width: 3.5 mm, Height: 40 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

The figure shows the standard item without 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

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	 4 055626 009322
GTIN	4055626009322
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of levels	4
Number of connections	5
Nominal cross section	1.5 mm ²
Color	gray
Insulating material	PA

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Technical data

General

Flammability rating according to UL 94	V0
Maximum load current	13.5 A (with 4 mm ² conductor cross section)
Rated surge voltage	4 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	0.56 W (the value is multiplied when connecting multiple levels)
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Nominal current I _N	13.5 A
Maximum load current	13.5 A
Nominal voltage U _N	24 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	4.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.5 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.14 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm ²
Tractive force setpoint	10 N
Conductor cross section tensile test	1.5 mm ²
Tractive force setpoint	40 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Technical data

General

Short circuit stability result	Test passed
Conductor cross section short circuit testing	1.5 mm ²
Short-time current	0.18 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Technical data

General

Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
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Dimensions

Width	3.5 mm
Length	90.8 mm
Height NS 35/7,5	41.5 mm
Height NS 35/15	49 mm

Connection data

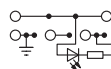
Note	Please observe the current carrying capacity of the DIN rails.
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1 mm ²
Connection method	Push-in connection
Stripping length	8 mm
Internal cylindrical gage	A1 / B1

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Flammability rating according to UL 94	V0

Drawings

Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27141118
eCl@ss 4.1	27141118
eCl@ss 5.0	27141118

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Classifications

eCl@ss

eCl@ss 5.1	27141118
eCl@ss 6.0	27141128
eCl@ss 7.0	27141128
eCl@ss 8.0	27141128
eCl@ss 9.0	27141128

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000900
ETIM 6.0	EC000900

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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Accessories

Accessories

DIN rail

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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

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

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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

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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

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

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

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



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

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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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

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



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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

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

End cap - NS 35/15 CAP - 1206573



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

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

Documentation

Mounting material - PT-IL - 3208090

Operating decal for the push-in Technology



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/4-PE-LED 24 RD - 3244467

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/4 - 3244588



End cover, Length: 90.8 mm, Width: 2.2 mm, Height: 33.8 mm, Color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

Jumper

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



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

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



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

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



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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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



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

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



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

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

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

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

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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

Partition plate

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

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



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

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.

Screwdriver tools

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

Screwdriver - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

Terminal marking

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



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

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 mm² conductor cross section, Color: silver

Sensor/actuator terminal block - PTIO 1,5/S/4-PE-LED 24 RD - 3244467

Accessories

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-IN 2,5/4-PE OG - 3244481



Sensor/actuator terminal block, with protective conductor function, Connection method: Push-in connection, Number of connections: 3, Cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, Width: 7 mm, Color: orange, Mounting type: NS 35/7,5, NS 35/15