

2982702

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PLC-INTERFACE with checkback contact, consisting of basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/10 A

## Your advantages

- · Resistant to vibrations and shocks
- · Wear-free switching with no contact bounce
- · Protective circuit in input and output
- · Status indicator
- DC voltage outputs up to 24 V DC/10 A
- Option of bridging adjacent modules

## Commercial data

Item number	2982702
Packing unit	10 рс
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6213
Catalog page	Page 409 (C-5-2019)
GTIN	4046356155748
Weight per piece (including packing)	37.57 g
Weight per piece (excluding packing)	37.64 g
Customs tariff number	85364190
Country of origin	DE



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## Technical data

### Notes

General	The PLC-ATP partition plate must be installed for voltages greater than 250 V (L1, L2, L3) between identical terminal blocks on adjacent modules.
General	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
General	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
General	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built- in device without protection against direct contact.
General	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).
General	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

### Product properties

Solid-state relay module
PLC-INTERFACE
With integrated solid-state relay
100% operating factor
Basic insulation
een the power circuits
Basic insulation
Ш
2
0.07 W
0.07 W
50 V DC
0.5 kV
24 V DC
24 V DC 3.5 mA
3.5 mA



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Typical turn-off time	500 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Surge voltage protection	> 33 V
Transmission frequency	100 Hz

### Output data

•	
Designation	DC voltage output
Contact switching type	1 N/O contact
Design of digital output	electronic
Contact connection type	Power contact
Output voltage range	8 V DC 33 V DC
Limiting continuous current	10 A (see derating curve)
Quiescent current	5.2 mA
Voltage drop at max. limiting continuous current	< 50 mV
Output circuit	3-conductor, ground-referenced
Protective circuit	Inverse diode
	Surge protection
Designation	Alarm output
Output voltage range	3 V DC 33 V DC
Limiting continuous current	100 mA
Surge voltage protection	> 33 V
Voltage drop at max. limiting continuous current	< 1.2 V
Output circuit	2-conductor, floating
Error indication	Red LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Suppressor diode

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.45 Nm 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))

### Dimensions

Width	6.2 mm
Height	80 mm



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Depth	95 mm
terial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m
oprovals	
CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group EN 60068-2-60
	EN 00008-2-00
DNV GL data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
andards and regulations	
Air clearances and creepage distances between the power circuits	
an orderenses and ordepage distances between the power circuits	

Mounting



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Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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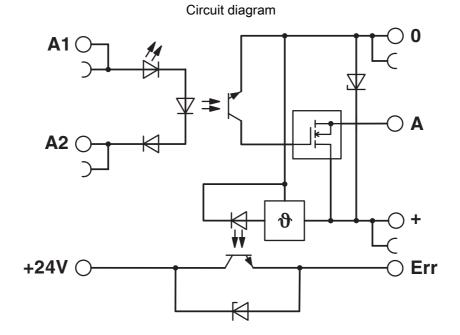
# Drawings

Diagram ϑ [°C]

Limiting continuous current

1) Aligned without spacing

2) Aligned with >6 mm spacing





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## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2982702

<b>.A</b> 1	CUL Recognized Approval ID: FILE E 238705
<b>91</b>	UL Recognized Approval ID: FILE E 238705
ERC	EAC Approval ID: TR_TS_D_00573_c
	DNV GL Approval ID: TAE0000196
	UL Listed Approval ID: FILE E 172140
<u>.</u>	CUL Listed Approval ID: FILE E 172140
: <b>@</b> .	CULus Listed Approval ID: E140324
cl	JLus Recognized
cl	JLus Listed



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# Classifications

### ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

### ETIM

	ETIM 9.0	EC001504			
U	UNSPSC				
	UNSPSC 21.0	39122300			



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# Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	f74b5dc1-e15c-4f0b-93cb-d919e783758a



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## Accessories

Note: Applying some accessories below might limit this product.

### FBST 500-PLC RD - Continuous plug-in bridge

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Continuous plug-in bridge, length: 500 mm, color: red

1 Max. current carrying capacity: 32 A

### FBST 500-PLC BU - Continuous plug-in bridge

#### 2966692

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Continuous plug-in bridge, length: 500 mm, color: blue

Max. current carrying capacity: 32 A



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FBST 500-PLC GY - Continuous plug-in bridge

#### 2966838

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Continuous plug-in bridge, length: 500 mm, color: gray

Max. current carrying capacity: 32 A

FBST 6-PLC RD - Single plug-in bridge

#### 2966236

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Single plug-in bridge, number of positions: 2, length: 6 mm, color: red

Max. current carrying capacity: 6 A



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FBST 6-PLC BU - Single plug-in bridge

#### 2966812

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Max. current carrying capacity: 6 A

FBST 6-PLC GY - Single plug-in bridge

#### 2966825

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Single plug-in bridge, number of positions: 2, length: 6 mm, color: blue



1 Max. current carrying capacity: 6 A



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FBST 8-PLC GY - Single plug-in bridge

#### 2967688

https://www.phoenixcontact.com/us/products/2967688

Single plug-in bridge, number of positions: 2, length: 8 mm, color: gray



1 Max. current carrying capacity: 6 A

#### PLC-V8/FLK14/OUT - System connection

#### 2295554

https://www.phoenixcontact.com/us/products/2295554



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plugin connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: plusschaltend



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### PLC-V8/FLK14/OUT/M - System connection

2304102

https://www.phoenixcontact.com/us/products/2304102



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plugin connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: minusschaltend

### PLC-V8/D15S/OUT - System connection

2296058 https://www.phoenixcontact.com/us/products/2296058



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: D-SUB pin strip 1x 15-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: plusschaltend



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PLC-V8/D15B/OUT - System connection

2296061

https://www.phoenixcontact.com/us/products/2296061



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: D-SUB socket strip 1x 15-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: plusschaltend

### PLC-V8C/PT-24DC/RS485 - Controller

1452919 https://www.phoenixcontact.com/us/products/1452919



PLC logic basic module with RS-485 connection for Modbus/RTU communication, with 16 I/Os, for plug-in connection to 8 digital or analog PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, Push-in connection



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PLC-V8C/SC-24DC/EM - Extension module

#### 2903095

https://www.phoenixcontact.com/us/products/2903095

Manual Contraction

### PLC-V8C/PT-24DC/EM - Extension module

2905137 https://www.phoenixcontact.com/us/products/2905137



PLC logic extension module with 16 I/Os, for plug-in connection to eight PLC-INTERFACE terminal blocks for extending the basic module (a maximum of two extension modules can be connected to a basic module), Push-in connection

PLC logic extension module with 16 I/Os, for plug-in connection to eight PLC-INTERFACE terminal blocks for extending the basic module (a maximum of two extension modules can be connected to a basic module), screw connection



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PLC-V8C/PT-24DC/SAM2 - Controller

#### 2907443

https://www.phoenixcontact.com/us/products/2907443



PLC logic stand-alone module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, cannot be extended, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, Push-in connection

### PLC-V8C/SC-24DC/SAM2 - Controller

2907445 https://www.phoenixcontact.com/us/products/2907445



PLC logic stand-alone module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, cannot be extended, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, screw connection



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PLC-V8C/PT-24DC/BM2 - Controller

#### 2907446

https://www.phoenixcontact.com/us/products/2907446



PLC logic basic module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, Push-in connection

### PLC-V8C/SC-24DC/BM2 - Controller

2907447 https://www.phoenixcontact.com/us/products/2907447



PLC logic basic module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, screw connection



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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

#### 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

#### 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

### 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

#### 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



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

1201730 https://www.phoenixcontact.com/us/products/1201730



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



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

#### 1201714

https://www.phoenixcontact.com/us/products/1201714



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

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

0806602

https://www.phoenixcontact.com/us/products/0806602



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



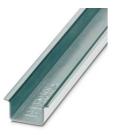
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### NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

### 1204135

https://www.phoenixcontact.com/us/products/1204135



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

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

1201756

https://www.phoenixcontact.com/us/products/1201756



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver



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

#### 1206599

https://www.phoenixcontact.com/us/products/1206599



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

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

1206586

https://www.phoenixcontact.com/us/products/1206586



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



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### NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

#### 1201895

https://www.phoenixcontact.com/us/products/1201895



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

#### NS 35/15 CAP - End cap

1206573 https://www.phoenixcontact.com/us/products/1206573

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





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### NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

#### 1201798

https://www.phoenixcontact.com/us/products/1201798



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

### PLC-ATP BK - Separating plate

2966841 https://www.phoenixcontact.com/us/products/2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation



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PLC-ESK GY - Power terminal block

#### 2966508

https://www.phoenixcontact.com/us/products/2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35 / 7.5

#### SZF 1-0,6X3,5 - Screwdriver

1204517 https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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