

# PTCB BE PT 6/10 - Base element

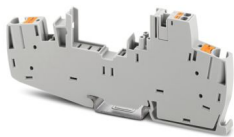


1760600

<https://www.phoenixcontact.com/us/products/1760600>

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Base element, mounting type: DIN rail: TH 35 - 7.5 mm, rated current: 31 A



## Your advantages

- More space in control cabinets thanks to only 8 mm overall width
- Simple application setup due to bridging option to CLIPLINE complete terminal block system
- Transparency regarding the utilization and status of the system thanks to integrated connections for individual or collective signals
- Easy commissioning and maintenance thanks to pre-installable wiring that remains untouched when replacing the connector

## Commercial data

Item number	1760600
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL10
Product key	CLA197
GTIN	4067923369603
Weight per piece (including packing)	32.2 g
Weight per piece (excluding packing)	28.01 g
Customs tariff number	85366990
Country of origin	TR

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## Technical data

### Notes

#### General

Note	The base element does not contain any electronic circuits.
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### Product properties

Product type	Base element
Mechanical service life	25 insertion cycles

#### Insulation characteristics

Overvoltage category	II (250 V AC / IEC 60934)
	III (UL 1077, UL 1059)
	III (80 V DC / IEC 60934)
Pollution degree	2 (250 V AC / IEC 60934)
	3 (UL 1077, UL 1059)

### Electrical properties

#### General

Rated voltage	240 V AC (IEC 60934)
	277 V AC (UL 1077)
	277 V AC (UL 1059)
	56 V DC (IEC 60934)
	56 V DC (UL 1077)
	56 V DC (UL 1059)
Rated insulation voltage $U_i$	250 V AC (IEC 60934)
	80 V DC (IEC 60934)
	277 V AC (UL 1077)
	277 V AC (UL 1059)
Rated current $I_N$	31 A (UL 1059, without device circuit breaker)
	16 A (Main contacts 1-2, UL 1077 and IEC 60934)
	1 A (Auxiliary contacts 3-4, without device circuit breaker)
Rated surge voltage	2.5 kV (IEC 60934, reinforced insulation between load and auxiliary circuit)
Insulation resistance $R_{iso}$	> 100 M $\Omega$ (500 V DC)
Dielectric strength	3000 V AC (between load circuit 1-2 and auxiliary circuit 3-4)
	1554 V AC (between open load contacts 1-2, auxiliary contacts 3-4)

#### Indicator/remote signaling

Connection name	Connection 3 / 4
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### Connection data

Connection 1 / 2

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Connection method	Push-in connection
Stripping length	12 mm
Conductor cross-section flexible	0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross-section rigid	0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> (direct plug-in)
Conductor cross-section AWG	20 ... 8
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 1 mm <sup>2</sup> ... 6 mm <sup>2</sup> (direct plug-in)
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 1 mm <sup>2</sup> ... 6 mm <sup>2</sup> (direct plug-in)

## Connection 3 / 4

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 16
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

## Dimensions

Dimensional drawing	
Width	8.2 mm
Height	122.9 mm
Depth	54.1 mm
Complete module width	8.2 mm
Complete module height	122.9 mm
Complete module depth	85.2 mm

## Material specifications

Color	gray (RAL 7042)
Material	PA
Flammability rating according to UL 94	V-0
Insulating material group	I

## Mechanical properties

### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-30 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (250 V AC / IEC 60934)
Humidity test	96 h, 95 % RH, 40 °C
Shock (operation)	30g (IEC 60068-2-27, Test Ea)
	Category 1, Class B (DIN EN 61373)
Vibration (operation)	10 Hz ... 150 Hz, 20 cycles (IEC 60068-2-6, Test Fc)
	10 Hz ... 75 Hz (Amplitude ±0.35 mm; in accordance with IEC 60068-2-6, Test Fc)
	75 Hz ... 150 Hz (8g)
	Category 1, Class B (DIN EN 61373)

## Approvals

### UL approval

Identification	UL Recognized UL 1059
	UL Recognized UL 1077

### CSA, Canada

Identification	CSA C22.2 No. 235-04
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## Standards and regulations

Standards/specifications	IEC 60934
Note	2019
Standards/specifications	UL 1077
Note	Additional protective devices for use in electrical equipment
Standards/specifications	UL 1059
Note	Terminal blocks
Standards/specifications	CSA C22.2 No. 235-04
Note	2017
Standards/specifications	IEC 60068-2-6
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 60068-2-27
Note	Environmental influences – Shocks
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
Standards/specifications	DIN EN 50274
Note	Touch protection and back-of-hand safety
Standards/specifications	IEC 60529
Note	2019
Standards/specifications	EN 61373

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Note	Railway applications - Rolling stock equipment - Shock and vibration tests
Standards/specifications	EN 45545-2
Note	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components

## Mounting

Mounting type	DIN rail: TH 35 - 7.5 mm
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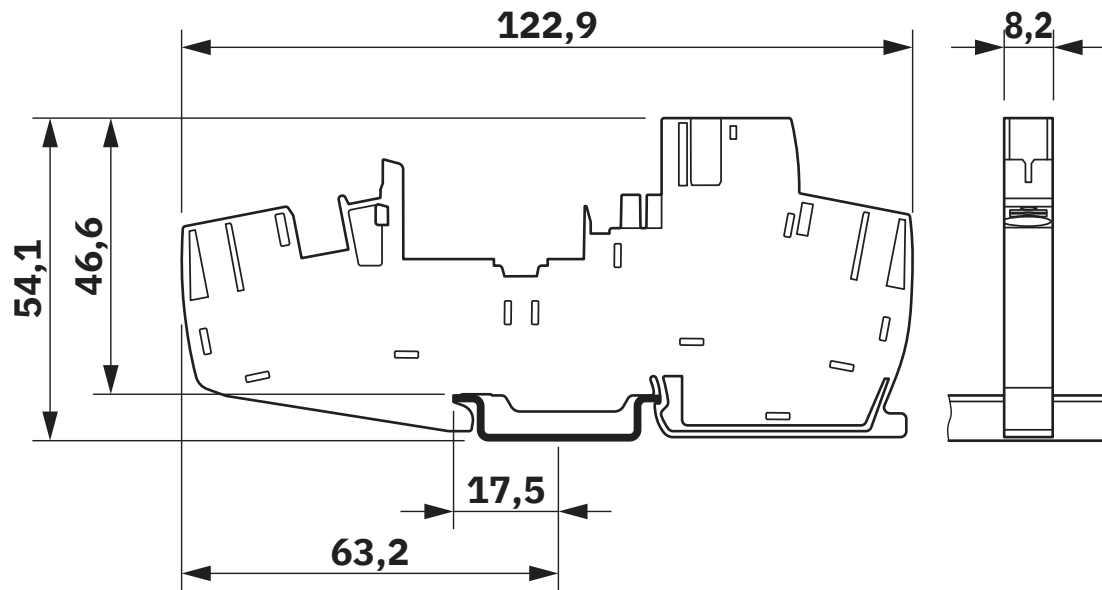
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## Drawings

Dimensional drawing



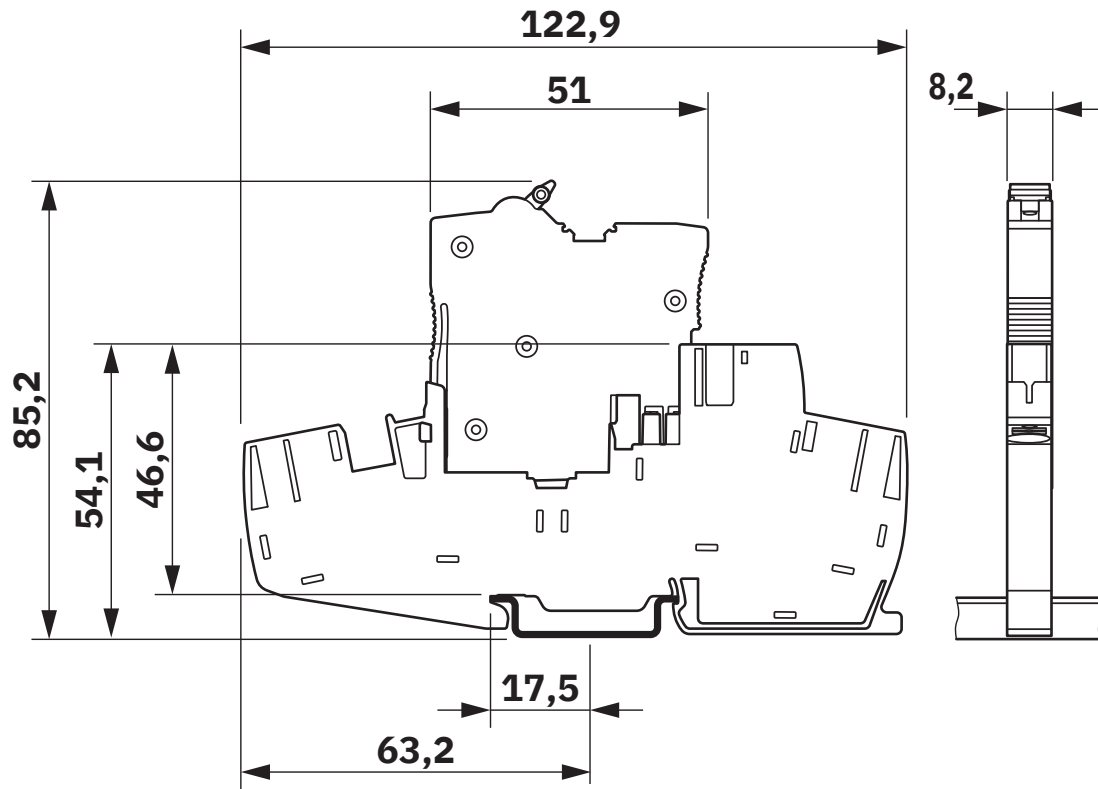
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Dimensional drawing

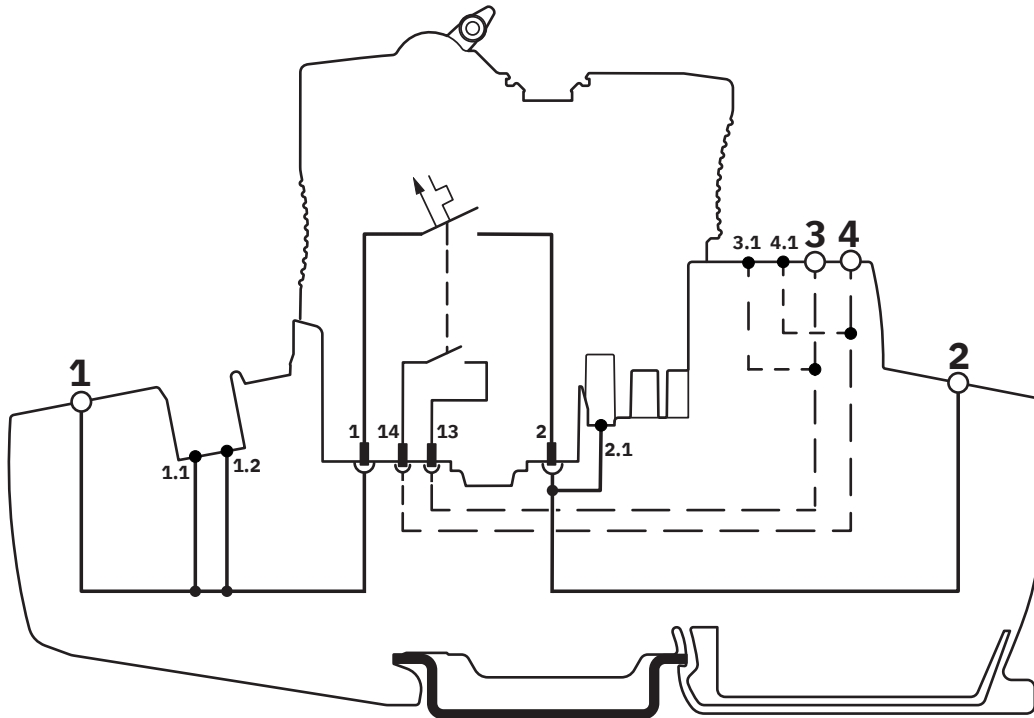


The figure shows the complete module consisting of a base element and connector

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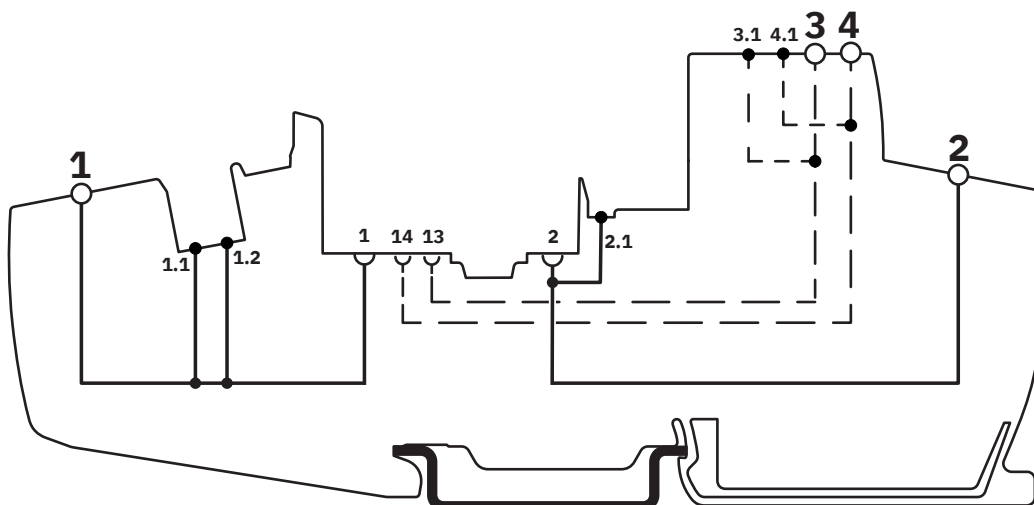
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Connection diagram



The figure shows the product in conjunction with a male connector

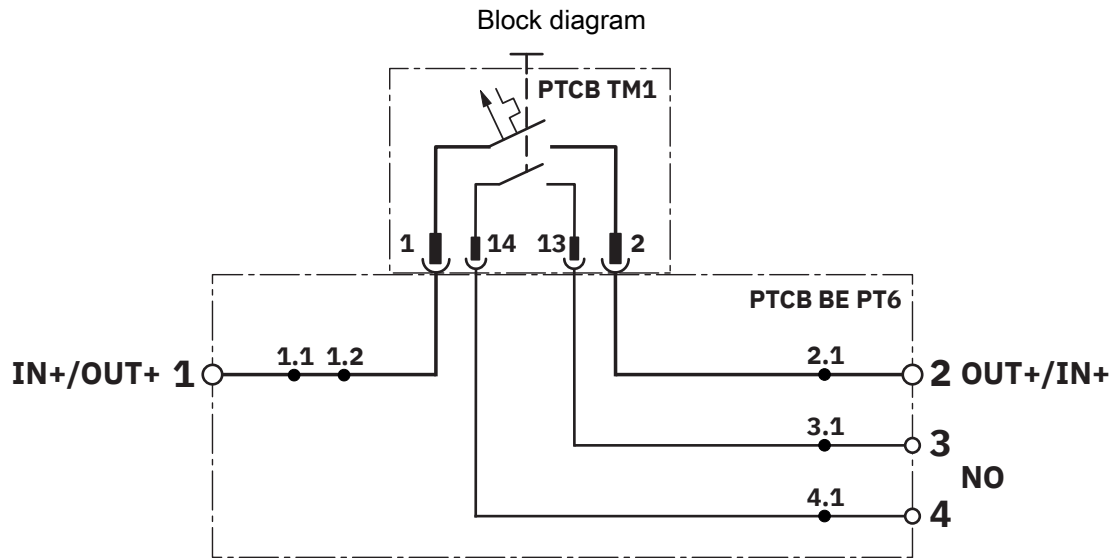
Connection diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1760600>



**IECEE CB Scheme**  
Approval ID: DE1-69241



**cULus Recognized**  
Approval ID: E60425

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## Classifications

### ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

### ETIM

ETIM 10.0	EC003538
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, No electrical and electronic equipment (EEE), cannot be used in EEE
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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