



Distribution blocks

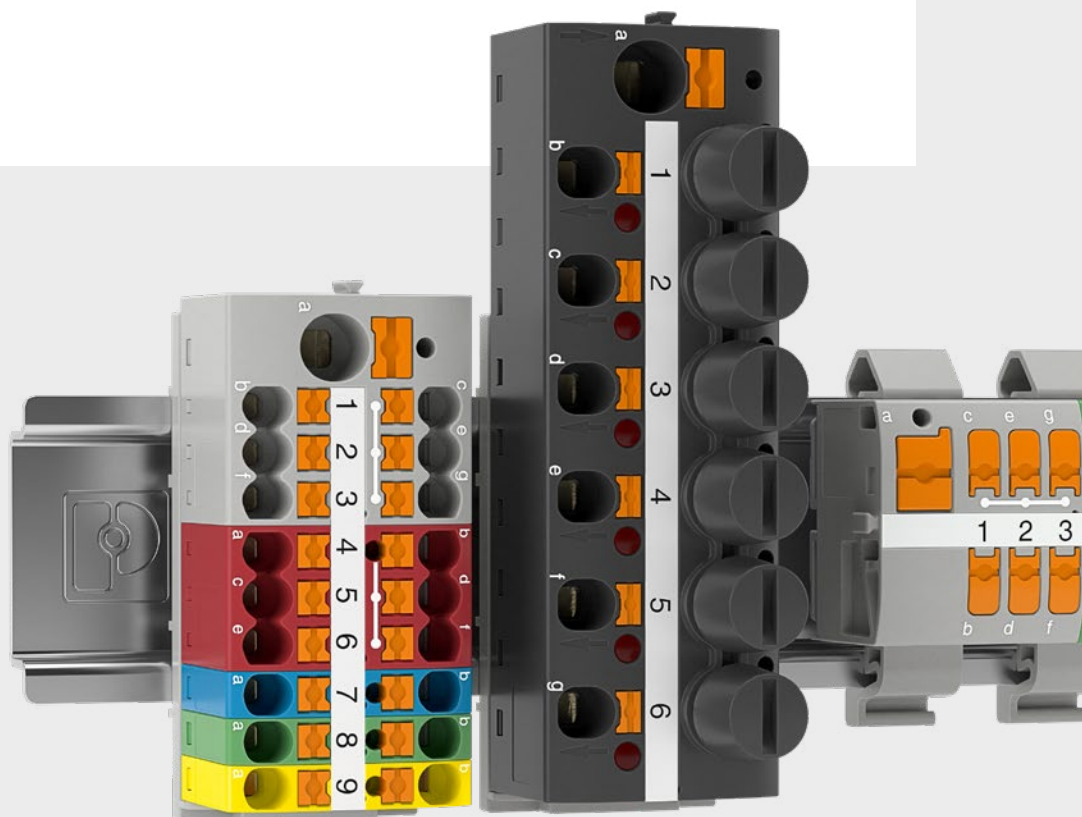
Distribution blocks and device terminal blocks

Distribution blocks and device terminal blocks

Distribution blocks and device terminal blocks feature a compact and modular design.

The product families differ mainly in structure due to the intended installation locations.

The device terminal blocks were primarily developed for the grid connection of electrical and electronic devices. The distribution blocks, on the other hand, were developed for potential distribution. However, they are also suitable for more complex tasks due to the availability of single blocks and function versions.



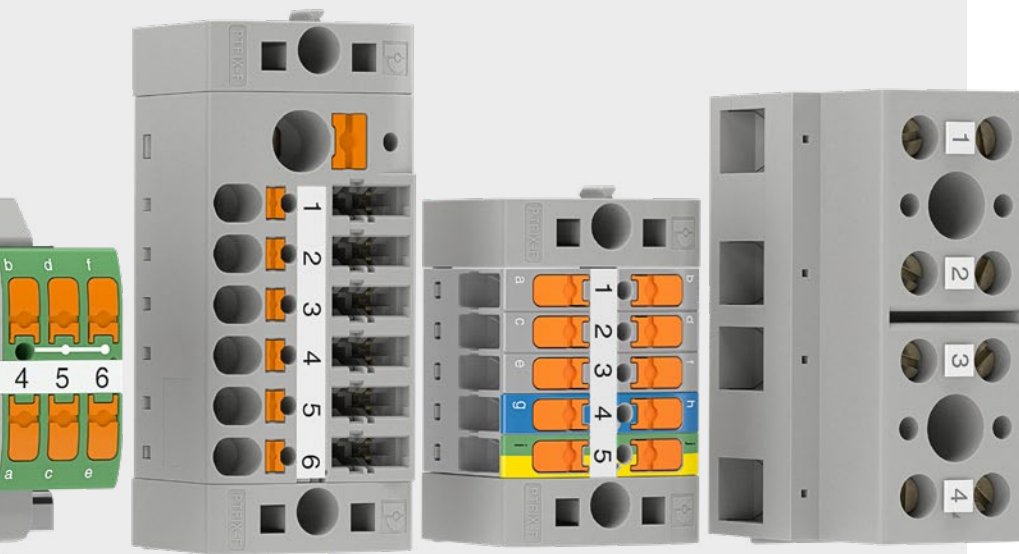
1 Distribution blocks

The ready-to-connect distribution and collection blocks are available in different cross-sections, numbers of connections, mounting types, and colors. They can be used immediately and can be extended as needed. The modular design and the integrated bridging support efficient and cost-effective load and control current distribution.

➤ More information starting on page 10

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2 Device terminal blocks

Compact device terminal blocks are primarily used in grid connections for electrical and electronic devices and in small junction boxes. The device terminal blocks route the potentials next to each other and do not usually feature integrated bridging.

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Comparison of distribution blocks and device terminal blocks

Distribution blocks

General

The FIX distribution block family consists of the PTFIX and PTVFIX product families. Both families contain distribution and collection blocks. The ready-to-connect blocks use maintenance-free Push-in direct-connection technology for easy conductor connection. With integrated bridging of the terminal points, they enable quick and easy installation.

The distribution blocks are available in different colors, enabling the color-coded assignment of conductors. Along with the additional marking material, this assignment ensures intuitive and safe installation.

The PTFIX and PTVFIX distribution blocks can be mounted on the DIN rail using various mounting adapters or mounted directly on the mounting panel via the snap-on flange. Versions for adhesive mounting are also available. To allow you to quickly and easily check the distribution blocks, the individual blocks have at least one test pick-off. This test pick-off is suitable for all common test probes.

PTFIX distribution blocks

The PTFIX distribution blocks are available with 4, 6, 12, and 18 terminal points and as single blocks with two terminal points. They are characterized by the convenient front connection. The blocks are also available in nominal cross-sections of 1.5, 2.5, 4, and 10 mm². The wider product

portfolio for PTFIX blocks includes function distribution blocks.

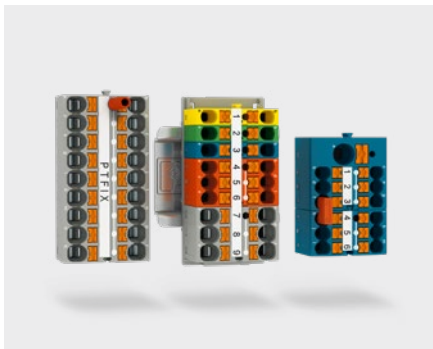
PTFIX function versions

In addition to dedicated distribution blocks, the PTFIX product family also includes function blocks. The function blocks are available in various disconnect and fuse versions.

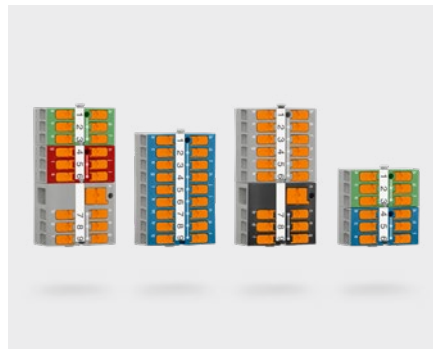
The blocks have a line contact and six distribution connections. The distribution connections accommodate connection cross-sections from 0.14 to 6 mm². The line contact can be installed with a conductor cross-section of 0.5 to 10 mm². The flexible mounting of the blocks with standardized mounting adapters is a familiar feature of PTFIX distribution blocks.

PTVFIX distribution blocks

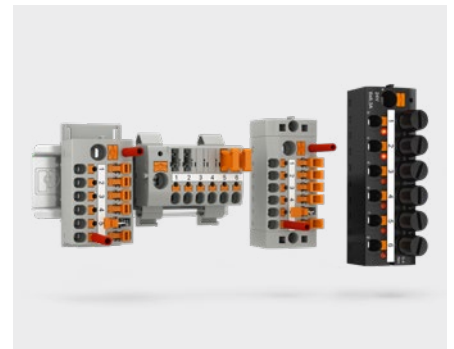
The PTVFIX blocks are equipped with 6, 12, and 18 terminal points. Apart from the lateral conductor entry and the corresponding connection direction of the Push-in connection, there are no technical differences between these blocks and the proven PTFIX distribution blocks.



PTFIX distribution and collection blocks with front Push-in connection



PTVFIX distribution and collection blocks with lateral Push-in connection



Function distribution blocks with disconnect and fuse function

Device terminal blocks

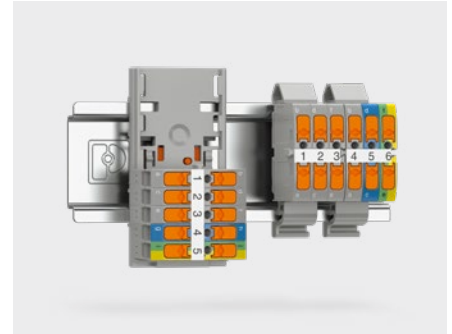
PTVFIX device terminal blocks

The PTVFIX device terminal blocks are part of the FIX system and use the same accessories as the distribution blocks. The primary difference compared to the distribution blocks is the bridging. While the other FIX block versions feature integrated bridging, multi-blocks do not have any integrated bridging. This means that the terminal blocks are the only blocks in the FIX system that carry multiple potentials in just one block. The blocks are designed such that only two terminal points are ever connected to one another. The PTVFIX device terminal blocks are available with a cross-section of 2.5 mm² with 2, 4, 6, 8, or 10 terminal points, which in turn means 2, 3, 4, or 5 potentials per block. Subsequent manual bridging of the device terminal blocks is not feasible, as the blocks do not have a special function shaft or bridge shaft due to their compact design.

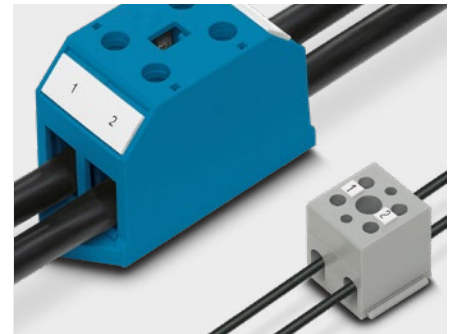
G and GE device terminal blocks

The G and GE device terminal blocks are not part of the FIX system and use universal screw connection technology. This connection is suitable for wiring flexible and rigid conductors. The screw connection is maintenance-free due to the patented Reakdyn principle. In addition to the use of splicing protection in the form of ferrules, the screw connection also enables multi-conductor connections in just one terminal point. As with the PTVFIX device terminal blocks, the terminal points of the G... device terminal blocks are not bridged with each other. The GE 10/2BA BU block is the only exception.

The G... device terminal blocks are available in nominal cross-sections of 4 and 10 mm². The 4 mm² cross-section has block versions with 2, 3, 4, 6, and 12 positions. While the 10 mm² cross-section only has 2, 3, 4, and 5 positions. The device blocks can only be mounted via direct mounting.



PTVFIX device terminal blocks



G and GE device terminal blocks

Comparison of distribution blocks and device terminal blocks

	Distribution blocks		Device terminal blocks	
Properties	Distribution blocks	Function distribution blocks	PTVFIX device terminal blocks	G and GE device terminal blocks
Connection method	Push-in (front and vertical)	Push-in (front)	Push-in (vertical)	Screw connection
Integrated bridging	Yes		No	No (with the exception of the GE block)
Terminal points	2, 4, 6, 12, 18 // 7, 13, 19	7	2, 4, 6, 8, 10	4, 6, 8, 10, 12, 24
Number of positions	1		1, 2, 3, 4, 5	2, 3, 4, 5, 6, 12
Nominal cross-sections	1.5 mm², 2.5 mm², 4 mm², 10 mm²	2.5 mm²		4 mm², 10 mm²
Color options	11 basic colors 3 special colors	Gray, blue	1 basic color	Gray, orange, blue
Mounting versions	Direct mounting via flange and securing pin, crosswise and lengthwise DIN rail mounting	Direct mounting via flange and securing pin, crosswise and lengthwise DIN rail mounting		Direct mounting via direct screw connection
Testing	Special test pick-offs			Via the terminal screws
Online configurator	Available			Not available

Connection technologies and testing options

Connection technology

FIX distribution blocks and device terminal blocks

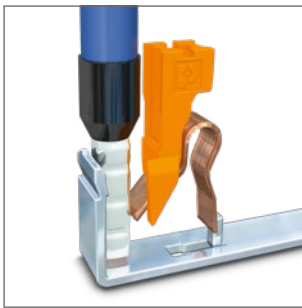
PTFIX and PTVFIX distribution blocks feature a Push-in connection. This connection enables direct conductor connection. This means that rigid conductors or conductors with ferrules are inserted directly into the blocks without using any tools. The special spring profile enables the easy insertion of conductors with ferrules starting from 0.34 mm². The contact spring is opened automatically

when the conductor is inserted. This provides the required pressure force against the current bar. The spring is opened using the actuating push button. This means that conductors can be released or very small conductors can be wired without ferrules (0.14 mm² or smaller).

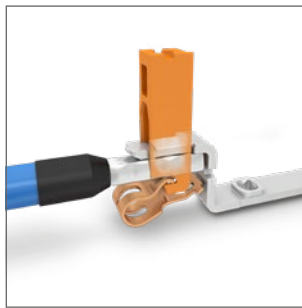
G and GE device terminal blocks

The G and GE device terminal blocks feature a maintenance-free screw connection. Due to the Reakdyn principle,

there is no need to retighten the terminal screws. The conductors can be installed in the device terminal blocks without pretreatment. Splicing protection can also be implemented in the form of ferrules. A special characteristic of the screw clamping body is the multi-conductor connection, which is also often required. Very large conductor cross-sections can also be wired gas-tight and with long-term stability.



Push-in connection



Lateral Push-in connection



Screw connection of a G device terminal block

Testing options

FIX distribution and collection blocks and device terminal blocks

The FIX blocks feature special test pick-offs, enabling tests to be performed as quickly and easily as possible. These load pick-offs make it very easy to test the blocks with the conductors inserted. All FIX blocks, except the function distribution blocks, are equipped with one load pick-off per potential. This means that the distribution blocks have one test pick-off per block, while the device terminal blocks have two terminal points. The function distribution blocks have one test pick-off per connection. The reason for this is that the various distribution connections can be separated and tested separately with the aid of the disconnect knives. The individual connections of the fuse block can also be measured separately. To simplify the testing of the distribution blocks, the standardized testing system has various colored test plugs with a diameter of 2.3 mm. The contact of the plug is split into four slightly

bent contact pins. This causes the test plug to clamp into the test pick-off and establish reliable contact with the current bar. In addition, the blocks can be tested directly with standardized 2.3 mm test probes.

G and GE device terminal blocks

In contrast to the distribution blocks, the device terminal blocks do not have any test pick-offs. To measure the individual potentials, you can simply test the current paths with a measuring device via the terminal screws of the individual terminal points.



Potential distribution and online configurator

Potential distribution

FIX distribution blocks

The distribution and function distribution blocks in the FIX family feature integrated bridging. All the distribution connections are connected to each other and to the line contact by means of this bridging. This reduces the wiring effort in the potential distribution and enables direct use. If you need more than one distribution block with 18 terminal points, the blocks can be extended easily with the 2-pos. standard plug-in bridge from the CLIPLINE complete system. First, snap the blocks together by means of the tongue and groove connection. As soon as the blocks are connected, they can be extended very easily with a plug-in bridge across the outer connections.

PTVFIX, G, and GE device terminal blocks

Unlike the distribution blocks, the device terminal blocks do not have integrated bridging. This means that these blocks can carry multiple potentials in just one block. Additional bridging is not feasible here, as the blocks do not have special function shafts due to their compact design. This means that the potentials can only be bridged via the terminal points, which is why bridging does not provide any added value here. The GE 10/2BA BU block is the exception here.

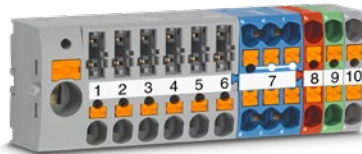


Potential extension of a PTFIX block using a plug-in bridge

Online configurator for FIX distribution blocks and device terminal blocks

The PTFIX and PTVFIX distribution blocks offer countless possible combinations. Using the online configurator for distribution blocks, you can easily configure your individual distribution block solution via drag and drop with 3D visualization. The configurator guides you through the configuration process step by step, thus ensuring an error-free configuration. Configure your individual distribution block by choosing from fixed-position distribution blocks and collection blocks, as well as modular single blocks. In just a few clicks, the configurator creates the desired product in the required colors, mounting type, and with your specified printing.

Create your solution with the configurator – both the PTFIX and PTVFIX distribution blocks are available in 11 basic colors and three special colors. The distribution blocks are easy to create and quick to order. After completing the configuration, you are issued an individual solution ID. You can use this ID to call up, order, or modify your configuration at any time.



Configurator for the FIX distribution blocks

Mounting options

Mounting options for the FIX distribution blocks and device terminal blocks

The distribution blocks and device blocks in the FIX families (PTFIX and PTVFIX) can be integrated into your solution in several ways using various mounting adapters and block versions.

Horizontal DIN rail mounting

The horizontal DIN rail adapters are available for NS 15 and NS 35 DIN rails. To mount, attach the corresponding adapter feet to the distribution block. The block can then be snapped onto the DIN rail very easily. We recommend using two snap-on feet per stand-alone block. You can reduce this number with solutions that combine several distribution blocks.

Vertical DIN rail mounting

The vertical DIN rail adapters can be mounted on NS 35 and NS 15 DIN rails. To mount, simply attach the distribution blocks to the adapter. The adapter is then snapped onto the DIN rail. When mounting, make sure that the side with the base latch is facing downwards. This prevents the blocks from sliding down.

Direct mounting with the adhesive versions

The distribution block versions for adhesive mounting feature an adhesive pad on the bottom of the block. To mount these blocks, simply remove the protective foil covering the adhesive. You can now easily attach the block to various surfaces.

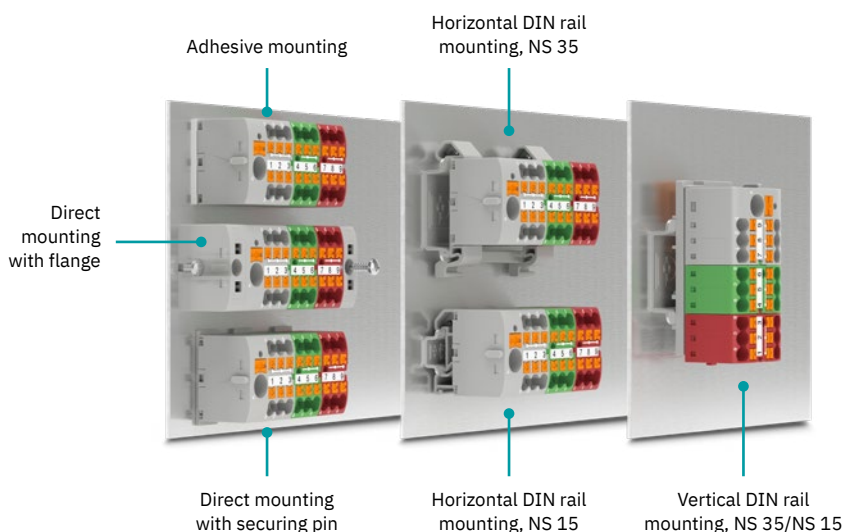
Direct mounting with flange

Direct mounting with a mounting flange enables the distribution blocks to be installed even in space-critical applications. To mount, first snap the distribution blocks onto the flange adapters. The flanges can be placed on either side and can therefore also be used in the middle of the FIX row. The flanges then just need to be secured with a screw at the chosen installation location.

Direct mounting with securing pin

Direct mounting with securing pin enables easy mounting via predrilled holes in the

mounting panel. To mount, the blocks are simply attached to the securing pin adapter and then inserted through the predrilled hole with the securing pin.



Mounting options for the G and GE device terminal blocks

The G and GE device terminal blocks can only be mounted by means of direct mounting. The GE device terminal blocks have a lug at each end with an integrated hole. The blocks can be quickly and easily secured to the mounting panel using the appropriate screws. In contrast to the GE blocks, the G blocks do not have any lugs. The fixing holes for the G blocks are integrated into the block itself. Just like the GE blocks, the G blocks can be screwed directly into the mounting panel using the appropriate screws.



Fixing for a GE device terminal block

Color versions and marking

Marking of the FIX distribution blocks and device terminal blocks

The PTFIX distribution blocks are available in 11 basic colors and three special colors. The PTVFIX distribution blocks, on the other hand, are initially available in only five basic colors. Other colors can be created in the online configurator. Nevertheless, the wide variety of colors in the product families enables you to create potential distributions that are very clear. For example, the various wire colors can be assigned to a corresponding color at a glance. The extra abbreviation at the end of the item designation denotes the color version of the individual distribution

blocks. The abbreviation for a gray item is GY here. The abbreviations stand for the English color designation. For an overview of the range of colors, the table below lists the various color versions and their abbreviations. In contrast to the distribution and collection blocks, the function distribution blocks are only available in gray and the fuse block is available in black. The basic colors of the function versions therefore clearly stand out. In addition to color coding, the blocks are also very easy to mark using self-adhesive marking material (TML or

SK). For straight and neat marking, the blocks have a flat marking groove specially designed for adhesive markings.

Colors		Abbreviation
Gray		GY
Blue		BU
Red		RD
Yellow		YE
Green		GN
Brown		BN
White		WH
Black		BK
Violet		VT
Pink		PK
Orange		OG
Blue/white		BUWH
Black/yellow		FE
Green/yellow		GNYE



Distribution block with marking and various colors

Marking of the G and GE device terminal blocks

The device terminal blocks do not have separate color versions. However, for marking purposes, the GE blocks have a deep marking groove, similar to that of terminal blocks. This means that standardized CLIPLINE complete marking accessories can be attached, thereby ensuring large-surface marking. As with the FIX blocks, various adhesive markings are available for marking the G blocks. The portfolio also includes warning labels and terminal markers.

The terminal markers can be attached easily to the device terminal blocks and highlight the identification marking perfectly.



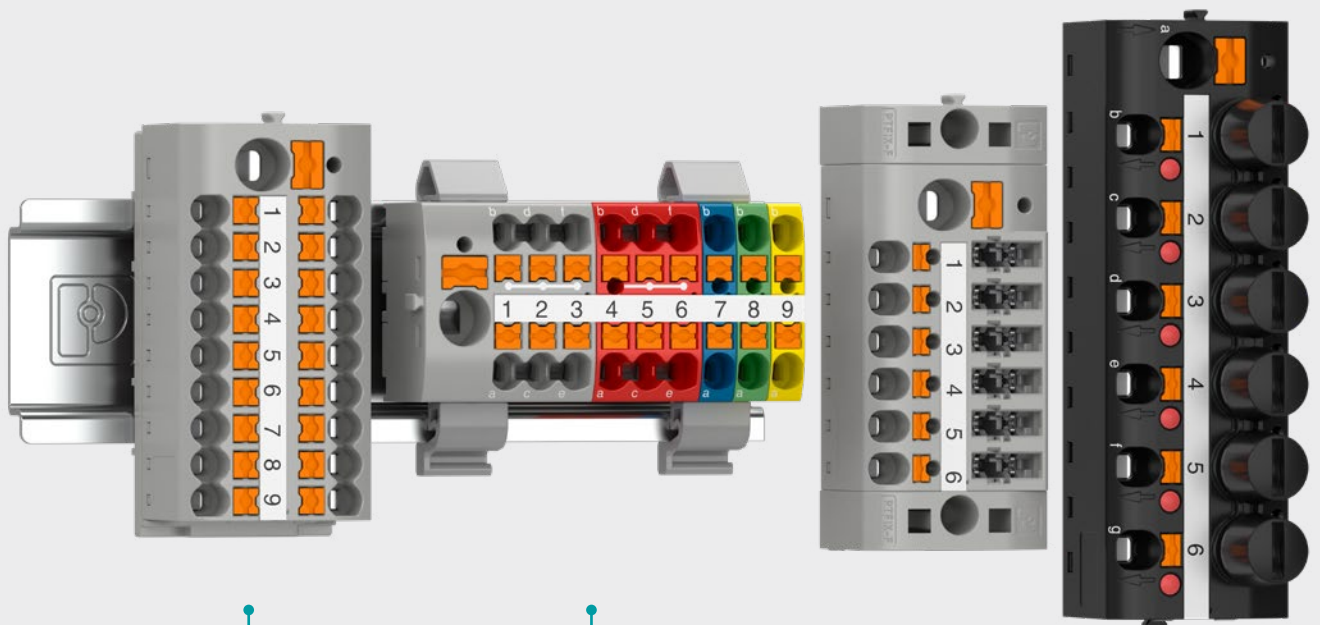
GE and G device terminal blocks

Distribution blocks

1

The main difference between the PTVFIX and PTFIX distribution blocks is the direction of the Push-in connection. The PTVFIX blocks have a vertical (lateral) conductor connection, while the PTFIX family is wired with a front Push-in connection.

The blocks also differ with regard to the size of the product range. The established portfolio for PTFIX has been extended over the years, which is why the more recently introduced product range for PTVFIX seems small in comparison at present.



PTFIX distribution blocks with Ex approval

The PTFIX distribution blocks with Ex approval differ from the other distribution blocks in that they feature additional Ex e approval. Furthermore, the portfolio of Ex versions is limited to the essential distribution blocks in gray and blue.

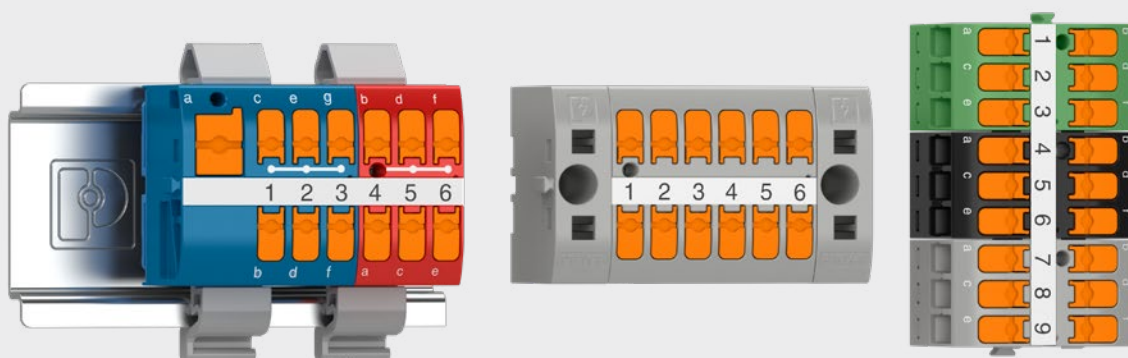
➤ More information starting on page 18

PTFIX distribution blocks

The distribution blocks are characterized by the internal bridging and the front Push-in connection. The distribution blocks are also very compact and can be combined in a flexible and modular way.

➤ More information starting on page 12

Properties	PTFIX distribution blocks	Function distribution blocks	PTVFIX distribution blocks
Connection method	Push-in (front)	Push-in (front)	Push-in (vertical)
Terminal points	2, 4, 6, 12, 18 // 7, 13, 19	7	2, 6, 12, 18 // 7, 13, 19
Number of positions	1	1	1
Nominal cross-sections	1.5 mm ² , 2.5 mm ² , 4 mm ² , 10 mm ²	2.5 mm ²	2.5 mm ²
Color options	11 basic colors, 3 special colors	Gray, blue	11 basic colors, 3 special colors
Mounting versions	Direct mounting via flange, lengthwise and crosswise DIN rail mounting, adhesive mounting	Direct mounting via flange, lengthwise and crosswise DIN rail mounting	Direct mounting via flange, lengthwise and crosswise DIN rail mounting, adhesive mounting
Online configurator	Available		



PTFIX function distribution blocks

Like the distribution blocks, the function distribution blocks have internal bridging and a front Push-in connection. The difference lies in the additional function.

➤ More information starting on page 22

PTVFIX distribution blocks

The distribution blocks are characterized by the internal bridging and the lateral Push-in connection. The distribution blocks are also very compact and can be combined in a flexible and modular way.

➤ More information starting on page 24

PTFIX distribution blocks

The PTFIX distribution blocks comprise the largest distribution block portfolio of Phoenix Contact. The blocks are characterized by the simple Push-in direct-connection technology and the FIX factor (PTFIX). The FIX factor implies simple arranging in rows, integrated bridging, and fast setup due to the wide range of mounting options for the distribution block system. The FIX factor therefore stands for quick and easy mounting and installation.

PTFIX – Unpack. Connect. Done.



Your advantages

- ✓ Fast installation with ready-to-connect blocks
- ✓ Significant space savings due to the minimal size
- ✓ Flexible mounting options
- ✓ Intuitive installation due to the wide range of colors
- ✓ Standardized accessories – CLIPLINE complete

Color versions

In the following product tables, the reference items listed are the standard gray color version.

You will find the color versions of the individual blocks in our online shop or in the online configurator.









Product overview for PTFIX (gray item versions)


1






2

Distribution blocks

1.5 mm ² distribution and collection blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6X1,5 GY 3002757	2 4 12 18	PTFIX 2X1,5 GY PTFIX 4X1,5 GY PTFIX 12X1,5 GY PTFIX 18X1,5 GY	1045923 1046608 3002758 3002760
	Number of connections		6			
	Current / voltage		17.5 A / 450 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 6X1,5-G GY 3002798	12 18	PTFIX 12X1,5-G GY PTFIX 18X1,5-G GY	3002799 3002804
	Number of connections		6			
	Current / voltage		17.5 A / 450 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Mounting: NS 15 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X1,5-NS15A GY 3002910	12 18	PTFIX 12X1,5-NS15A GY PTFIX 18X1,5-NS15A GY	3002914 3002917
	Number of connections		6			
	Current / voltage		17.5 A / 500 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 18X1,5-NS35 GY 1046949			
	Number of connections		18			
	Current / voltage		17.5 A / 500 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 4/6X1,5 GY 1047466	13 19	PTFIX 4/12X1,5 GY PTFIX 4/18X1,5 GY	1046961 1047418
	Number of connections		7			
	Current / voltage		17.5 A / 450 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Line contact: Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 10			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 4/6X1,5-G GY 1047478	13 19	PTFIX 4/12X1,5-G GY PTFIX 4/18X1,5-G GY	1046973 1047430
	Number of connections		7			
	Current / voltage		17.5 A / 450 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Line contact: Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 10			
	Mounting: NS 15 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 4/6X1,5-NS15A GY 1047490	13 19	PTFIX 4/12X1,5-NS15A GY PTFIX 4/18X1,5-NS15A GY	1046985 1047442
	Number of connections		7			
	Current / voltage		17.5 A / 500 V			
	Cross-section range / AWG		0.14 mm ² ... 1.5 mm ² / 26 ... 16			
	Line contact: Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 10			

Product overview for PTFIX (gray item versions)

1.5 mm ² distribution and collection blocks			Connection versions		
	Mounting: NS 35 DIN rail, crosswise		Number	Type	Item no.
	Type	Item no.			
	Number of connections	PTFIX 4/18X1,5-NS35 GY 1047454			
	Current / voltage	19			
	Cross-section range / AWG	17.5 A / 500 V			
	Line contact: Cross-section range / AWG	0.14 mm ² ... 1.5 mm ² / 26 ... 16 0.2 mm ² ... 4 mm ² / 24 ... 10			






2.5 mm ² distribution and collection blocks			Connection versions		
	Mounting: Base block		Number	Type	Item no.
	Type	Item no.	2 12 18	PTFIX 2X2,5 GY PTFIX 12X2,5 GY PTFIX 18X2,5 GY	1028067 3273286 3273308
	Number of connections	PTFIX 6X2,5 GY 3273264			
	Current / voltage	6			
	Cross-section range / AWG	24 A / 450 V			
	Mounting: Adhesive version		Number	Type	Item no.
	Type	Item no.	12 18	PTFIX 12X2,5-G GY PTFIX 18X2,5-G GY	3273395 3273416 3273438
	Number of connections	PTFIX 6X2,5-G GY 3273395			
	Current / voltage	6			
	Cross-section range / AWG	24 A / 450 V			
	Mounting: NS 15 DIN rail, lengthwise		Number	Type	Item no.
	Type	Item no.	12 18	PTFIX 12X2,5-NS15A GY PTFIX 18X2,5-NS15A GY	3274100 3274122 3274144
	Number of connections	PTFIX 6X2,5-NS15A GY 3274100			
	Current / voltage	6			
	Cross-section range / AWG	24 A / 690 V			
	Mounting: NS 35 DIN rail, crosswise		Number	Type	Item no.
	Type	Item no.	12 18	PTFIX 12X2,5-NS35 GY PTFIX 18X2,5-NS35 GY	3273000 3273022 3273044
	Number of connections	PTFIX 6X2,5-NS35 GY 3273000			
	Current / voltage	6			
	Cross-section range / AWG	24 A / 690 V			
	Mounting: NS 35 DIN rail, lengthwise		Number	Type	Item no.
	Type	Item no.	12 18	PTFIX 12X2,5-NS35A GY PTFIX 18X2,5-NS35A GY	3273132 3273154 3273176
	Number of connections	PTFIX 6X2,5-NS35A GY 3273132			
	Current / voltage	6			
	Cross-section range / AWG	24 A / 690 V			
	Cross-section range / AWG	0.14 mm ² ... 2.5 mm ² / 26 ... 14			


Product overview for PTFIX (gray item versions)

1



2

Distribution blocks

2.5 mm² distribution and collection blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5 GY 3273330	13 19	PTFIX 6/12X2,5 GY PTFIX 6/18X2,5 GY	3273352 3273374
	Number of connections		7			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-G GY 3273460	13 19	PTFIX 6/12X2,5-G GY PTFIX 6/18X2,5-G GY	3273482 3273504
	Number of connections		7			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Mounting: NS 15 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-NS15A GY 3274166	13 19	PTFIX 6/12X2,5-NS15A GY PTFIX 6/18X2,5-NS15A GY	3274188 3274210
	Number of connections		7			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-NS35 GY 3273066	13 19	PTFIX 6/12X2,5-NS35 GY PTFIX 6/18X2,5-NS35 GY	3273088 3273110
	Number of connections		7			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-NS35A GY 3273198	13 19	PTFIX 6/12X2,5-NS35A GY PTFIX 6/18X2,5-NS35A GY	3273220 3273242
	Number of connections		7			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 26 ... 14			

4 mm² distribution and collection blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6X4 GY 3273790	2 12 18	PTFIX 2X4 GY PTFIX 12X4 GY PTFIX 18X4 GY	1028360 3273812 3273834
	Number of connections		6			
	Current / voltage		32 A / 450 V			
	Cross-section range / AWG		0.2 mm² ... 4 mm² / 24 ... 12			

Product overview for PTFIX (gray item versions)





4 mm ² distribution and collection blocks				Connection versions		
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 6X4-G GY 3273922	12 18	PTFIX 12X4-G GY PTFIX 18X4-G GY	3273944 3273966
	Number of connections		6			
	Current / voltage		32 A / 450 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X4-NS35 GY 3273526	12 18	PTFIX 12X4-NS35 GY PTFIX 18X4-NS35 GY	3273548 3273570
	Number of connections		6			
	Current / voltage		32 A / 800 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X4-NS35A GY 3273658	12 18	PTFIX 12X4-NS35A GY PTFIX 18X4-NS35A GY	3273680 3273702
	Number of connections		6			
	Current / voltage		32 A / 800 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 10/6X4 GY 3273856	13 19	PTFIX 10/12X4 GY PTFIX 10/18X4 GY	3273878 3273900
	Number of connections		7			
	Current / voltage		41 A / 450 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 20 ... 8			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 10/6X4-G GY 3273988	13 19	PTFIX 10/12X4-G GY PTFIX 10/18X4-G GY	3274010 3274032
	Number of connections		7			
	Current / voltage		41 A / 450 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 24 ... 12			
	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 10/6X4-NS35 GY 3273592	13 19	PTFIX 10/12X4-NS35 GY PTFIX 10/18X4-NS35 GY	3273614 3273636
	Number of connections		7			
	Current / voltage		41 A / 800 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 24 ... 12			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 10/6X4-NS35A GY 3273724	13 19	PTFIX 10/12X4-NS35A GY PTFIX 10/18X4-NS35A GY	3273746 3273768
	Number of connections		7			
	Current / voltage		41 A / 800 V			
	Cross-section range / AWG		0.2 mm ² ... 4 mm ² / 24 ... 12			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 20 ... 8			

Product overview for PTFIX (gray item versions)

1

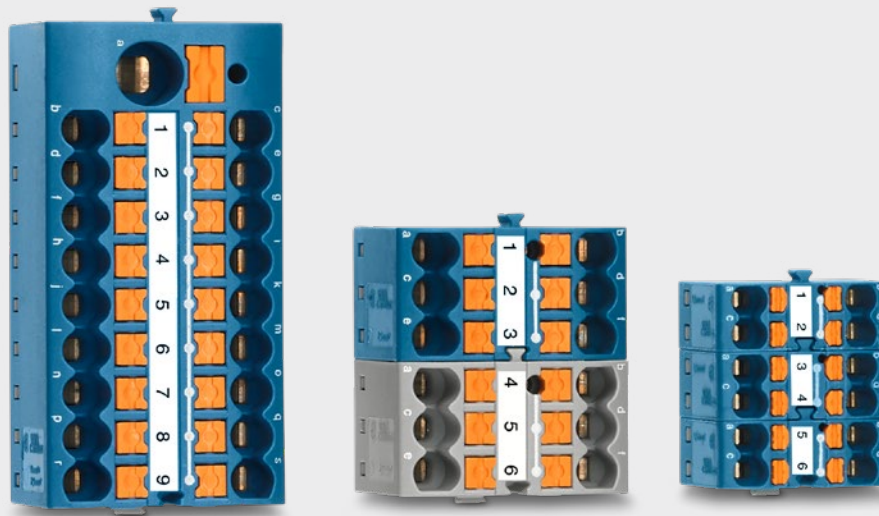
2

Distribution blocks

10 mm² distribution and collection blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6X10/S GY 1082387			
	Number of connections		6			
	Current / voltage		57 A / 450 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTFIX 6X10/S-G GY 1082492			
	Number of connections		6			
	Current / voltage		57 A / 450 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X10/S-NS35 GY 1082403			
	Number of connections		6			
	Current / voltage		57 A / 800 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X10/S-NS35A GY 1082479			
	Number of connections		6			
	Current / voltage		57 A / 800 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			

PTFIX distribution blocks with Ex approval

The PTFIX distribution blocks with Ex approval only differ from the other distribution blocks in that they feature additional Ex e approval. Otherwise, the distribution blocks are almost identical. They are also part of the FIX system and therefore use the same standardized accessories.



Your advantages


- ✓ Certification in accordance with Ex e
- ✓ Fast installation with ready-to-connect blocks
- ✓ Flexible mounting options
- ✓ Intuitive installation due to the wide range of colors
- ✓ Standardized accessories – CLIPLINE complete

Explosion protection













Explosion protection around the world is mainly based on the IEC 60079 series of international standards and European and American standards and directives. In North America, the basis for this is the National Electric Code (NEC) in the USA and the Canadian Electrical Code (CEC) in Canada. Directive 2014/34/EU (previously ATEX 100a) is of particular importance to manufacturers of devices and protective systems within CENELEC countries of the European Union and beyond. We meet international requirements with IECEx certificates. This means that use with the “increased safety” Ex eb type of protection is permitted in zone 1 and 2. However, this is only under the condition that the distribution blocks are installed in housings that are qualified and certified for the respective type of protection. The protection principle of the increased safety “e” type of protection (IEC/EN 60079-7) is essentially based on stricter design measures.



Certification marking (Ex logo)

1.5 mm² distribution and collection blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 4X1,5 GY-EX 1221508			
	Number of connections		4			
	Current / voltage		14.5 A / 440 V			
	Cross-section range / AWG		0.14 mm² ... 1.5 mm² / 26 ... 16			

Product overview for PTFIX with Ex approval (gray item versions)

2.5 mm ² distribution and collection blocks				Connection versions		
 	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6X2,5 GY-EX 1221469	2 12 18	PTFIX 2X2,5 GY-EX PTFIX 12X2,5 GY-EX PTFIX 18X2,5 GY-EX	1221491 1221410 1221423
	Number of connections		6			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
 	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X2,5-NS35 GY-EX 1221474	12 18	PTFIX 12X2,5-NS35 GY-EX PTFIX 18X2,5-NS35 GY-EX	1221415 1221473
	Number of connections		6			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
 	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6X2,5-NS35A GY-EX 1221481	12 18	PTFIX 12X2,5-NS35A GY-EX PTFIX 18X2,5-NS35A GY-EX	1221420 1221479
	Number of connections		6			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
 	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5 GY-EX 1221454	13 19	PTFIX 6/12X2,5 GY-EX PTFIX 6/18X2,5 GY-EX	1221426 1221440
	Number of connections		7			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 20 ... 8			
 	Mounting: NS 35 DIN rail, crosswise			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-NS35 GY-EX 1221458	13 19	PTFIX 6/12X2,5-NS35 GY-EX PTFIX 6/18X2,5-NS35 GY-EX	1221432 1221444
	Number of connections		7			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 20 ... 8			
 	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-NS35A GY-EX 1221464	13 19	PTFIX 6/12X2,5-NS35A GY-EX PTFIX 6/18X2,5-NS35A GY-EX	1221436 1221450
	Number of connections		7			
	Current / voltage		22.5 A / 440 V			
	Cross-section range / AWG		0.14 mm ² ... 2.5 mm ² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm ² ... 10 mm ² / 20 ... 8			

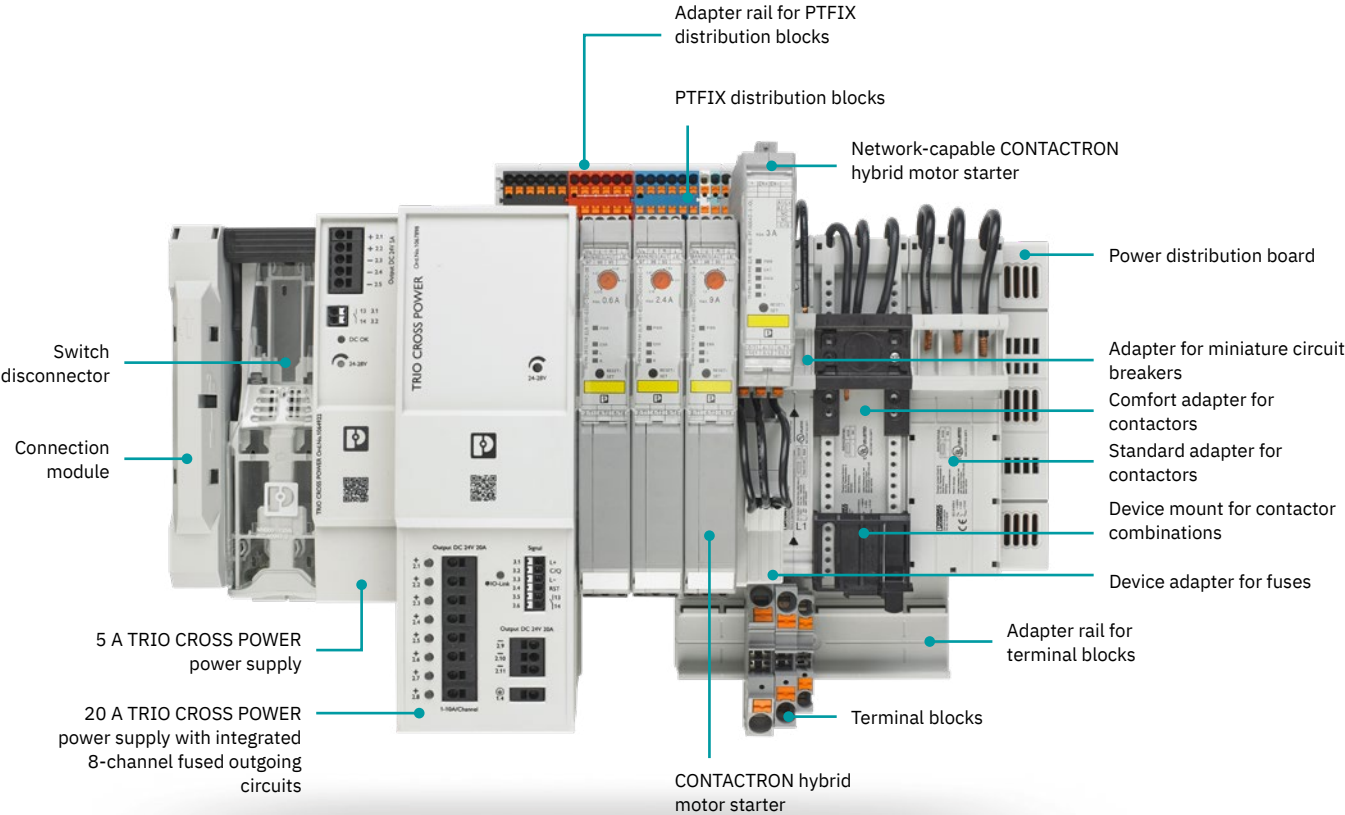
CrossPowerSystem power distribution board

CrossPowerSystem

The PTFIX distribution blocks can be used as more than just a stand-alone distribution block system – they are suitable for use in various applications. For example, they can be integrated into our new power distribution system.

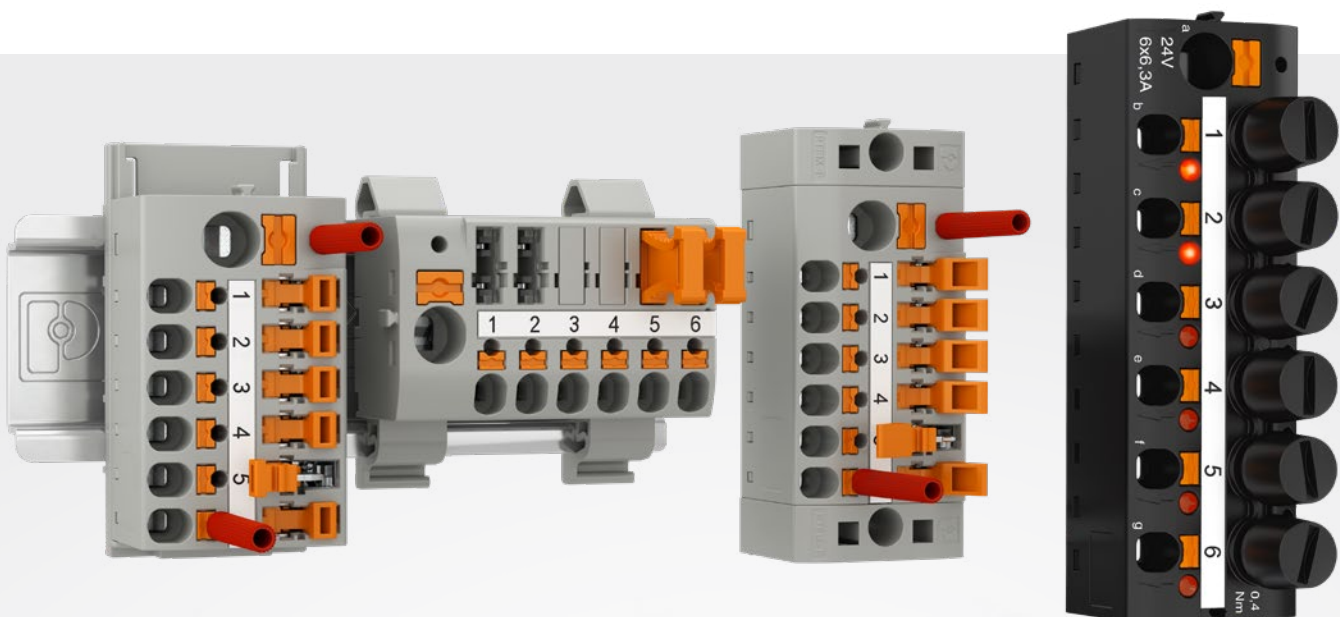
The CrossPowerSystem is an open platform for modular and functional control cabinets. Three-phase devices are mounted on the power distributor via plug-and-play. The 20 A power supply with integrated electronic circuit breakers

(8-channel) supplies a safe 24 V supply which can be distributed easily using additional adapter rails. You can mount the adapter rails of the CrossPowerSystem directly on the top or bottom of the power distribution board. You can thus use the PTFIX distribution blocks for 24 V power distributions as well as for N, PE, and other distributions on the rail.



PTFIX function distribution blocks

The PTFIX function distribution blocks are available in various disconnection versions and as fuse blocks. The distribution blocks are available with seven terminal points and a nominal cross-section of 2.5 mm². In addition, the line contact can be installed with a conductor cross-section of 0.5 to 10 mm². Like the distribution blocks, these blocks are mounted flexibly with standardized mounting adapters.



Your advantages

- ✓ Fast installation with ready-to-connect blocks
- ✓ Easy integration of function elements
- ✓ Significant space savings due to the minimal size
- ✓ Flexible mounting options
- ✓ Standardized accessories – CLIPLINE complete

Product overview for PTFIX-function

1

2

Distribution blocks

PTFIX-function distribution blocks

The PTFIX-function distribution blocks are the first distribution blocks with integrated function. The blocks enable you to easily implement isolating plugs, component connectors, fuse plugs, or microfuses. You will find the accessories for the individual blocks in our online shop under the relevant item.

Disconnect base block

The TG version is a disconnect base block. This block enables the easy use of isolating plugs, fuse plugs, and component connectors. Switching locks and feed-through connectors can also be

integrated. The TG disconnect base block is therefore a very flexible function block.

Knife-disconnect block





The MT version features knife disconnection to easily separate the signal paths. The knife disconnection mechanism can be opened very easily using a screwdriver.

Lever-type knife-disconnect block

The MTL version features a lever-type disconnect knife. The handling differs from the MT version. The blocks require more space above the block, but can be opened tool-free.

Fuse block

The fuse block provides straightforward protection for the signal paths through the integration of simple microfuses.

2.5 mm² PTFIX function distribution blocks				Connection versions		
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-TG 1130751			
	Number of connections		7			
	Current / voltage		20 A / 400 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-MT 1130757			
	Number of connections		7			
	Current / voltage		20 A / 400 V	7	PTFIX 6/6X2,5-MT BU	1487214
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTFIX 6/6X2,5-MTL 1130760			
	Number of connections		7			
	Current / voltage		20 A / 400 V	7	PTFIX 6/6X2,5-MTL BU	1487215
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTFIX 10/6X4-SI (5X20) 1172135			
	Number of connections		7			
	Current / voltage		6.3 A / 250 V			
	Cross-section range / AWG		0.2 mm² ... 4 mm² / 24 ... 12			
	Line contact: Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			

PTVFIX distribution blocks

The PTVFIX distribution blocks are the latest distribution blocks in the Phoenix Contact portfolio. Like the PTFIX blocks, these blocks are also characterized by the simple Push-in direct-connection technology and the FIX factor (PTVFIX). The difference compared to the PTFIX distribution blocks is the lateral conductor entry.

PTVFIX – Unpack. Connect. Done.



Your advantages

- ✓ Fast installation with ready-to-connect blocks
- ✓ Lateral conductor routing without bending radii
- ✓ Significant space savings due to the minimal size
- ✓ Flexible mounting options
- ✓ Standardized accessories – CLIPLINE complete

Color versions

In the following product tables, the reference items listed are the standard gray color version. You will find the color versions of the individual blocks in our online shop or in the online configurator.









Product overview for PTVFIX (gray item versions)

1

2

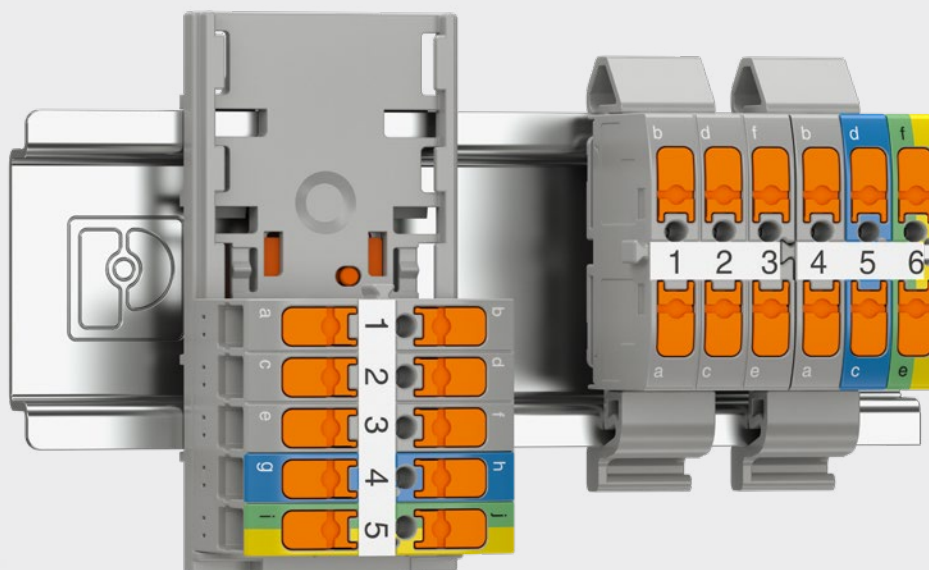
Distribution blocks

2.5 mm² PTVFIX distribution blocks				Connection versions		
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTVFIX 6X2,5 GY 1019563	2 12 18	PTVFIX 2X2,5 GY PTVFIX 12X2,5 GY PTVFIX 18X2,5 GY	1019459 1019572 1019577
	Number of connections		6			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTVFIX 6X2,5-G GY 1019652	12 18	PTVFIX 12X2,5-G GY PTVFIX 18X2,5-G GY	1186862 1186867
	Number of connections		6			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTVFIX 6X2,5-NS35A GY 1019526	12 18	PTVFIX 12X2,5-NS35A GY PTVFIX 18X2,5-NS35A GY	1019532 1019537
	Number of connections		6			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Mounting: Base block			Number	Type	Item no.
	Type	Item no.	PTVFIX 6/6X2,5 GY 1019582	13 19	PTVFIX 6/12X2,5 GY PTVFIX 6/18X2,5 GY	1019608 1019613
	Number of connections		7			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 6 mm² / 20 ... 10			
	Mounting: Adhesive version			Number	Type	Item no.
	Type	Item no.	PTVFIX 6/6X2,5-G GY 1186872	13 19	PTVFIX 6/12X2,5-G GY PTVFIX 6/18X2,5-G GY	1186877 1186882
	Number of connections		7			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 6 mm² / 20 ... 10			
	Mounting: NS 35 DIN rail, lengthwise			Number	Type	Item no.
	Type	Item no.	PTVFIX 6/6X2,5-NS35A GY 1019542	13 19	PTVFIX 6/12X2,5-NS35A GY PTVFIX 6/18X2,5-NS35A GY	1019547 1019556
	Number of connections		7			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Line contact: Cross-section range / AWG		0.5 mm² ... 6 mm² / 20 ... 10			

Device terminal blocks

2

The device terminal blocks differ primarily in their connection technology and mounting types. Unlike the G/GE device terminal blocks, the PTVFIX device terminal blocks are equipped with Push-in connection technology and, as they belong to the FIX system, have more accessories, which include various mounting adapters. The block series also differ with regard to the nominal cross-section.

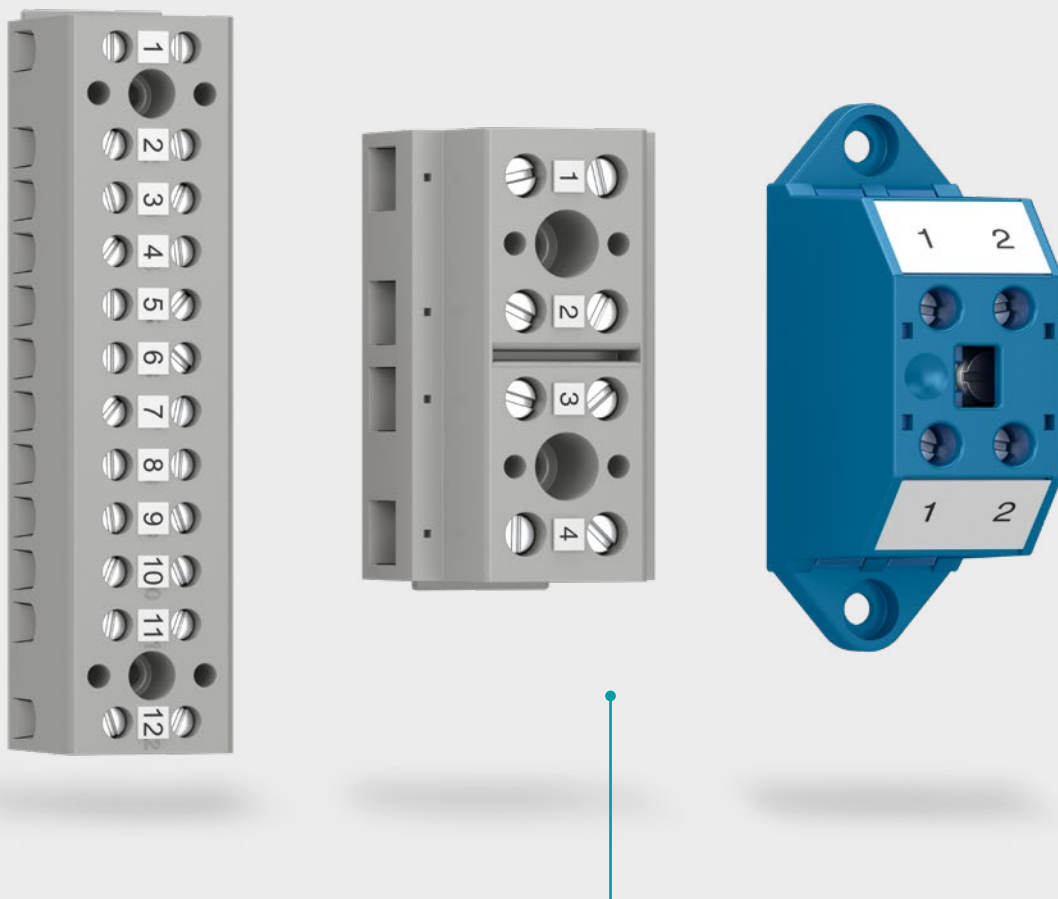


PTVFIX device terminal blocks

The PTVFIX device terminal blocks are equipped with Push-in connection technology and accommodate conductor cross-sections between 0.14 and 4 mm².

➤ More information starting on page 28

Properties	PTVFIX device terminal blocks	G/GE device terminal blocks
Connection method	Push-in (vertical)	Screw connection
Terminal points	2, 4, 6, 8, 10	4, 6, 8, 10, 12, 24
Number of positions	1, 2, 3, 4, 5	2, 3, 4, 5, 6, 12
Nominal cross-sections	2.5 mm ²	4 mm ² , 10 mm ²
Mounting versions	Direct mounting via flange or securing pin, DIN rail mounting crosswise and lengthwise to the DIN rail	Direct mounting via direct mounting
Testing	Special test pick-offs	Via the terminal screws
Online configurator	Yes	No



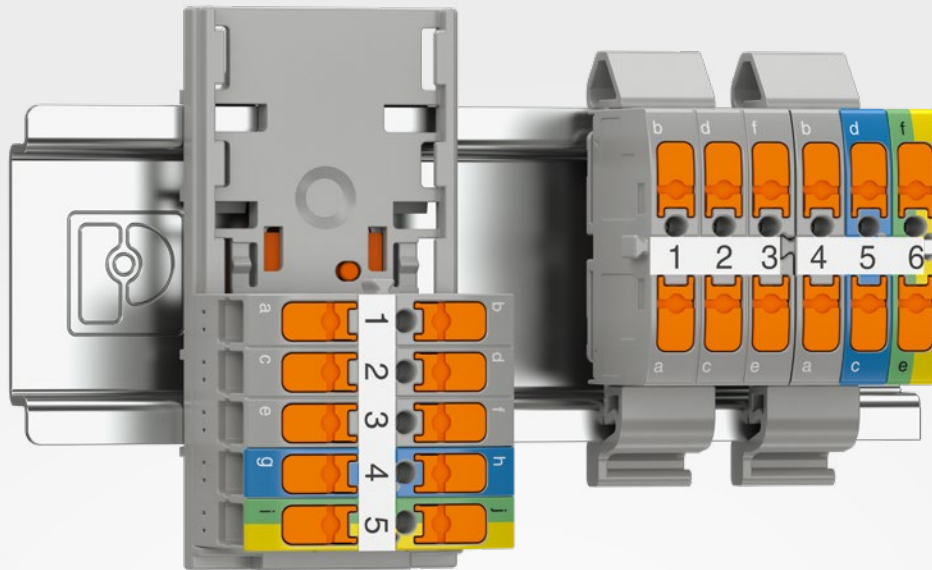
G/GE device terminal blocks

Unlike the PTVFIX blocks, the G/GE device terminal blocks have a screw connection. Depending on the block, they can accommodate conductor cross-sections between 0.2 and 10 mm².

➤ More information starting on page 30

PTVFIX device terminal blocks

Unlike the FIX distribution blocks, the PTVFIX device terminal blocks do not have any integrated bridging, which means they can carry more than one potential. Like all blocks in the FIX system, the device terminal blocks use the standardized accessories of the CLIPLINE complete system. You can thus also benefit here from various mounting types, an online configurator, as well as uniform testing and marking accessories.



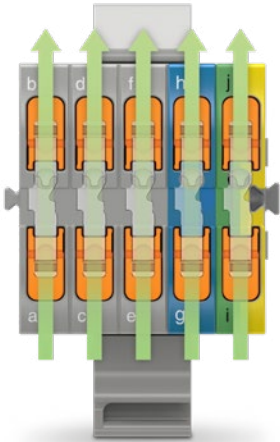
Your advantages




- ✓ Fast installation with ready-to-connect blocks
- ✓ Significant space savings due to the minimal size
- ✓ Flexible mounting options
- ✓ Ideal for use in building installation
- ✓ Standardized accessories – CLIPLINE complete

Separate potentials (without integrated bridging)

The PTVFIX device terminal blocks are the first FIX distribution blocks to carry more than one potential. Unlike the other distribution blocks, the device terminal blocks do not have integrated bridging. This means that the blocks carry one potential per two terminal points. This feature makes the blocks particularly suitable in areas such as building installation. Quickly and easily connect the phase, the neutral conductor, and the protective conductor in just one compact and space-saving block. If you need more than two terminal points per potential, we recommend using a modular solution

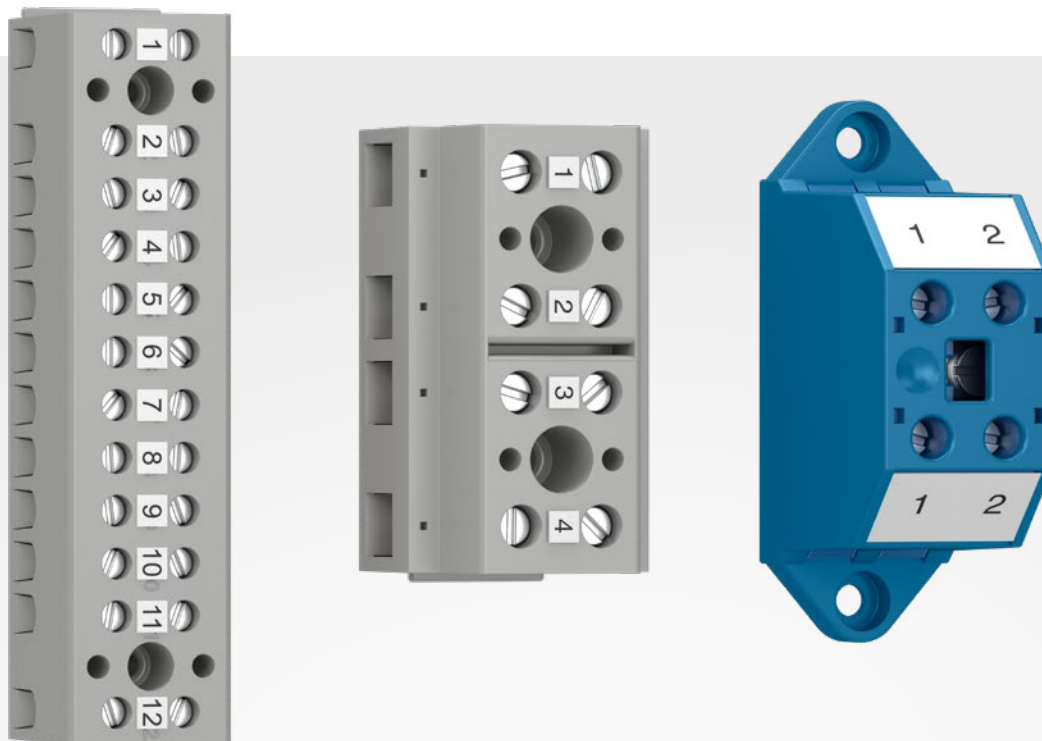
of distribution blocks or a hybrid solution of device terminal blocks and distribution blocks. Due to the identical design, the various blocks can be easily connected together via the tongue and groove connection. The various block versions can also be freely combined in the online configurator to create a turnkey solution.



2.5 mm² PTVFIX device terminal blocks				Connection versions		
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTVFIX 2,5/2	6 8 10	PTVFIX 2,5/3 PTVFIX 2,5/4 PTVFIX 2,5/5	1300609 1300610 1300611
	Number of connections		4			
	Current / voltage		24 A / 690 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTVFIX 2,5-L/N/GNYE			
	Number of connections		6			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			
	Mounting: Base block NEW			Number	Type	Item no.
	Type	Item no.	PTVFIX 2,5-3L/N/GNYE			
	Number of connections		10			
	Current / voltage		24 A / 450 V			
	Cross-section range / AWG		0.14 mm² ... 2.5 mm² / 26 ... 14			

G and GE device terminal blocks

The G and GE device terminal blocks are compact connection blocks. The device terminal blocks are available in cross-sections of 4 and 10 mm². Depending on the cross-section, the blocks have 4, 6, 8, 10, 12, or 24 terminal points. The device terminal blocks carry one potential per two terminal points. The GE block is the exception here. The device terminal blocks can be attached to the mounting panel by means of direct mounting.



Your advantages






- ✓ Fast installation with ready-to-connect blocks
- ✓ Significant space savings due to the minimal size
- ✓ Screw connection enables multi-conductor connection at each terminal point
- ✓ Easy direct mounting with integrated through holes for screw mounting


Product overview for device terminal blocks

1

2

Device terminal blocks

G device terminal blocks				Connection versions		
	Mounting: Direct screw mounting		Number of positions	Type	Item no.	
	Type	Item no.	G 5/ 2		2716020	
	Number of positions		2			
	Current / voltage		32 A / 500 V			
	Cross-section range / AWG		0.2 mm² ... 4 mm² / 24 ... 12			
 	Mounting: Direct screw mounting		Number of positions	Type	Item no.	
	Type	Item no.	G 5/ 2-EX		1089161	
	Number of positions		2			
	Current / voltage		32 A / 500 V			
	Cross-section range / AWG		0.2 mm² ... 4 mm² / 24 ... 12			
	Mounting: Direct screw mounting		Number of positions	Type	Item no.	
	Type	Item no.	G 5/ 2 B		2716305	
	Number of positions		2			
	Current / voltage		32 A / 500 V			
	Cross-section range / AWG		0.2 mm² ... 4 mm² / 24 ... 12			
	Mounting: Direct screw mounting		Number of positions	Type	Item no.	
	Type	Item no.	G 10/ 2		2716703	
	Number of positions		2			
	Current / voltage		57 A / 800 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			

GE device terminal blocks				Connection versions		
	Mounting: Direct screw mounting		Number of positions	Type	Item no.	
	Type	Item no.	GE 10/2-BA BU		2701574	
	Number of positions		1			
	Current / voltage		57 A / 1000 V			
	Cross-section range / AWG		0.5 mm² ... 10 mm² / 20 ... 8			

