

# PT 2X2-FF-ST - Surge protection plug



2800755

<https://www.phoenixcontact.com/us/products/2800755>

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PLUGTRAB, plug-in surge protection for Foundation Fieldbus

## Your advantages

- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- Maximum ease of maintenance, thanks to the 2-piece design
- Easy selection for all possible demands in MCR applications with a complete product portfolio
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

## Commercial data

Item number	2800755
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 185 (C-4-2019)
GTIN	4046356637077
Weight per piece (including packing)	24.995 g
Weight per piece (excluding packing)	24.995 g
Customs tariff number	85363030
Country of origin	DE

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## Technical data

### Product properties

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Type	Male
Product type	Surge protection for information technology
Product family	PLUGTRAB PT
Number of positions	5
Surge protection fault message	none
Wire pairs per module	2
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

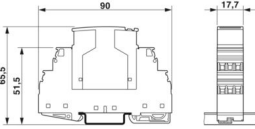
### Electrical properties

Nominal voltage $U_N$	32 V DC
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### Connection data

Connection method	Screw connection (in connection with the base element)
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### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

### Material specifications

Color	black (RAL 9005)
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	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PA

## Mechanical properties

### Mechanical data

Open side panel	No
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## Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage $U_C$	36 V DC
Rated current	1.6 A
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu A$
Residual current $I_{PE}$	$\leq 5 \mu A$ (with PT 4-BE)
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-line)	100 A
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	10 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu s$	1 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-line)	100 A
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth)	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (line-line)	23 A
Output voltage limitation at 1 kV/ $\mu s$ (line-line) spike	$\leq 75 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 1.3 kV$ (with PT 4-BE)
Output voltage limitation at 1 kV/ $\mu s$ (line-line) static	$\leq 75 V$
Voltage protection level $U_p$ (line-line)	$\leq 75 V$ (C3 - 25 A)
Voltage protection level $U_p$ (line-earth)	$\leq 1.3 kV$ (C1 - 1.5 kV)
	$\leq 1.3 kV$ (C2 - 9 kV)
	$\leq 1.3 kV$ (D1 - 500 A)
Response time $t_A$ (line-line)	$\leq 1 ns$
Response time $t_A$ (line-earth)	$\leq 100 ns$
Resistance per path	$\leq 1 \Omega$
Surge protection fault message	none
Impulse durability (line-line)	C3 - 25 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	D1 - 500 A

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	$\leq 2000 m$ (amsl)

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## Standards and regulations

VDE requirement class	C1
	C2
	C3
	D1

## Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
Standards/specifications	EN 61643-21/A1
Note	2009

## Mounting

Mounting type	on base element
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## Classifications

### ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

### ETIM

ETIM 9.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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