

## DPI CD EXD 230 24 M (929 969)

- Dual surge protection for one 120 / 230 V power supply system and one data interface
- Easy to mount on field devices with a spare cable gland
- For installation in conformity with the lightning protection zone concept at the boundaries from  $O_b - 2$  and higher

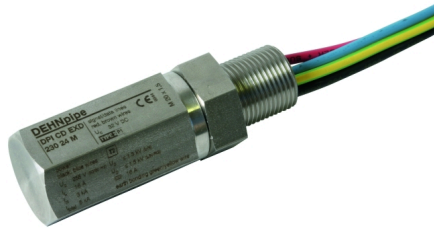
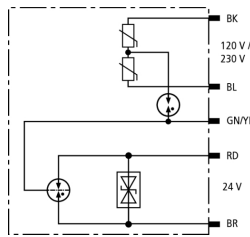
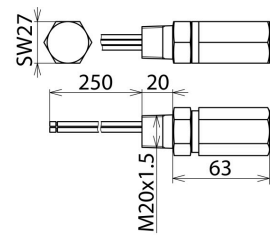


Figure without obligation



Basic circuit diagram DPI CD EXD 230 24 M



Dimension drawing DPI CD EXD 230 24 M

Flameproof surge arrester for the data and power side for protecting one 120 / 230 V power supply system and one 24 V data interface of field devices in potentially explosive areas (zones 1 and 2).

Additional safety due to fault-proof Y circuit for 120 / 230 V power supply systems.

II 2 G Ex d IIC T5/T6 version universally applicable in hazardous zones 1 and 2. Certified to CSA and USA Hazloc standards.

### Protection of the data side

Type	DPI CD EXD 230 24 M
Part No.	929 969
SPD class	TYPE 2 P2
Nominal voltage ( $U_n$ )	24 V
Max. continuous operating voltage (d.c.) ( $U_c$ )	32 V
Max. continuous operating voltage (a.c.) ( $U_o$ )	22.6 V
Nominal current at 80 °C ( $I_n$ )	0.55 A
D1 Lightning impulse current (10/350 $\mu$ s) line-PG ( $I_{imp}$ )	1 kA
C2 Total nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	10 kA
C2 Nominal discharge current (8/20 $\mu$ s) line-line ( $I_n$ )	0.15 kA
Voltage protection level line-line for $I_n$ C2 ( $U_p$ )	$\leq 58$ V
Voltage protection level line-PG for $I_n$ C2 ( $U_p$ )	$\leq 900$ V
Voltage protection level line-line at 1 kV/ $\mu$ s C3 ( $U_p$ )	$\leq 50$ V
Voltage protection level line-PG at 1 kV/ $\mu$ s C3 ( $U_p$ )	$\leq 850$ V
Capacitance line-line (C)	$\leq 25$ pF
Capacitance line-PG (C)	$\leq 15$ pF
Operating temperature range ( $T_U$ )	-40 °C ... +80 °C
Degree of protection	IP 67
For mounting on (field / device side)	M20 x 1.5 male thread
Connection	connecting lines (1.3 mm <sup>2</sup> )
Length of the connecting line	250 mm
Earthing via	connecting line
Enclosure material	StSt (V2A)
Colour	bare surface
Test standards	IEC 61643-21 / EN 61643-21
Approvals	ATEX, IECEx, CCC, CSA & USA Hazloc, SIL
ATEX approvals	KEMA 10ATEX0114 X: II 2 G Ex db IIC T5/T6 Gb
IECEX approvals	DEK 11.0006X: Ex db IIC T5 or T6 Gb
CSA & USA Hazloc approvals (1)	CSA 10.2317168: Ex d IIC T4 ... T6
CSA & USA Hazloc approvals (2)	CSA 10.2317168: Class I Div 1, 2; Class I Zone 1
China Compulsory Certification	CCC No. 2021312304001026
SIL classification	up to SIL3 *)

\*) For more detailed information, please visit [www.dehn.de](http://www.dehn.de).

## Protection of the power side

Type	DPI CD EXD 230 24 M
Part No.	929 969
SPD according to EN 61643-11 / IEC 61643-11	type 2 / class II
Nominal voltage (a.c.) ( $U_N$ )	120/230 V
Max. continuous operating voltage (a.c.) ( $U_C$ )	255 V
Nominal discharge current (8/20 $\mu$ s) L-N ( $I_n$ )	3 kA
Total discharge current (8/20 $\mu$ s) L+N-PE ( $I_{total}$ )	5 kA
Voltage protection level L-N ( $U_p$ )	$\leq 1.4$ kV
Voltage protection level L/N-PE ( $U_p$ )	$\leq 1.5$ kV
Max. discharge current L-N ( $I_{max}$ )	3 kA
Max. mains-side overcurrent protection	16 A gG or B 16 A
Short-circuit withstand capability for mains-side overcurrent protection with 16 A gG	6 kA <sub>rms</sub>
Temporary overvoltage (TOV) L-N ( $U_T$ )	335 V / 5 sec.
Temporary overvoltage (TOV) L/N-PE (1) ( $U_T$ )	400 V / 5 sec.
Temporary overvoltage (TOV) L/N-PE (2) ( $U_T$ )	1200 V+ $U_{CS}$ / 200 ms
Indication of the disconnecter	upstream fuse
Weight	255 g
Customs tariff number (Comb. Nomenclature EU)	85363010
GTIN	4013364127418
PU	1 pc(s)

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.