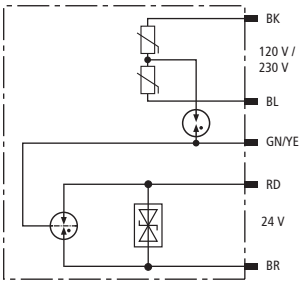
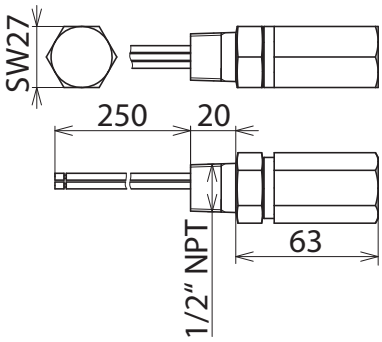
DPI CD EXD 230 24 N (929 970)

- 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 0_B – 2 and higher



Basic circuit diagram



Dimension drawing

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.

Type	**DPI CD EXD 230 24 N**
Part No.	**929 970**
Technical data	
C2 Nominal discharge current (8/20 µs) line-line (I_n)	0.15 kA
C2 Nominal discharge current (8/20 µs) line-PG (I_n)	5 kA
Protection for the data side	
SPD class	TYPE 2 P2
Nominal voltage (U_N)	24 V
Max. continuous operating voltage DC (U_C)	32 V
Max. continuous operating a.c. voltage (U_C)	22.6 V
Nominal current at 80°C (I_L)	0.55 A
D1 Lightning impulse current (10/350 µs) line-PG (I_{imp})	1 kA
C2 Total nominal discharge current (8/20 µs) (I_n)	10 kA
Voltage protection level line-line for I_n C2 (U_P)	≤ 58 V
Voltage protection level line-PG for I_n C2 (U_P)	≤ 900 V
Voltage protection level line-line at 1 kV/µs C3 (U_P)	≤ 50 V
Voltage protection level line-PG at 1 kV/µs C3 (U_P)	≤ 850 V
Capacitance line-line (C)	≤ 25 pF
Capacitance line-PG (C)	≤ 15 pF
Operating temperature range (T_U)	-40 °C ... +80 °C
Degree of protection	IP 67
For mounting on (field / device side)	$^1/_2$-14 npt male thread
Connection	connecting lines (1.3 mm²)
Length of the connecting lead	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 *)
Protection for the power side	
SPD according to EN 61643-11 / IEC 61643-11	type 2 / class II

: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

Protection for the power side	
Nominal voltage (a.c.) (U_N)	120 / 230 V
Max. continuous operating a.c. voltage (U_C)	255 V
Nominal discharge current (8/20 µs) L-N (I_n)	3 kA
Total discharge current (8/20 µs) L+N-PE (I_{total})	5 kA
Voltage protection level L-N (U_P)	≤ 1.4 kV
Voltage protection level L/N-PE (U_P)	≤ 1.5 kV
Max. discharge current L-N (I_{max})	3 kA
Additional overcurrent protection	16 A gG or B 16 A
Short-circuit withstand capability for mains-side overcurrent protection with 16 A gG	6 kA_{rms}
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 disconnector	upstream fuse
Standards	
Certification	UL
UL Standard	UL 497b
UL File Number	E156818

Masterdata	
Net weight	248 g/pc(s)
GTIN	4013364127425
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363010

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.

*) For details, see: www.dehn-international.com

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