Selection matrix – Industrial buildings lightning current and surge protective devices for power supply systems Red / Line

Low-voltage main distribution board [1]

Upstream backup fuse > 250 A

Upstream backup fuse > 125 A

Sub-distribution board existent?

No further protective devices required

> 10 m

Type 1+2+3 combined arrester [2] – DEHNvenCI ... FM [3]

System configuration		
TN-S	TT	TN-C
4x **961 205** 1x **900 417**	3x **961 205** 1x **961 185**	3x **961 205** 1x **900 411**

Type 1+2+3 combined arrester – DEHNventil ... FM

System configuration		
TN-S	TT	TN-C
954 405	**954 315**	**954 305**

Type 2 surge arrester – DEHNguard ACI ... FM [3]
Cross-sectional area of 6 mm² (Cu)

System configuration		
TN-S	TT	TN-C
952 440	**952 341**	**952 330**

Type 2 surge arrester – DEHNguard ... FM

System configuration		
TN-S	TT	TN-C
952 405	**952 385**	**952 305**

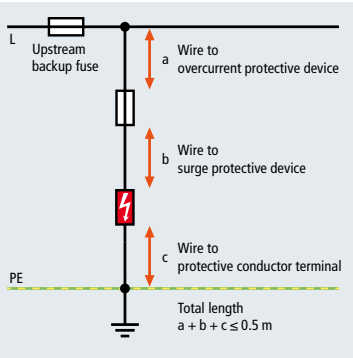
Type 3 surge arrester

DEHNrail M ... FM [3]		DEHNflex	DEHNsafe	SFL PRO 6x 19"
Three phase current up to 25 A	Alternating current up to 25 A	Alternating current up to 16 A	Alternating current up to 16 A	Alternating current up to 16 A installation in 19" systems
953 405	**953 205**	**924 396**	**924 370**	**909 251**

Installation notes

Comply with maximum cable length

According to DIN VDE 0100-534, it is important to ensure that the total length of all lines between the connection points of the SPD combination does not exceed a value of 0.5 m. This specification applies to the cable length including the backup fuse.
Tip: Cable length a need not be taken into account when using DEHNvenCI and DEHNguard ACI, both products without an additional backup fuse.



Detailed selection is quick and easy with our online configurators:

More information at:
de.hn/8xpVg

Yes
No
> 10 m Cable length to the equipment

[1] Same product selection regardless of the lightning protection system
[2] Protective effect
[3] without additional backup fuse (earth-fault and short-circuit-proof installation necessary)

Selection matrix – Industrial buildings lightning current and surge protective devices for telecommunications Yellow / Line

Building automation / measuring and control systems

KNX

BLITZDUCTORconnect ML2 B 180
927 210 U_C = 180 V DC, I_L = 1.2 A
TYPE 1 P1

BLITZDUCTOR XT ML2 B 180 [1]
920 211 U_C = 180 V DC, I_L = 1.2 A
TYPE 1 P1

DEHNbox TC B 180
922 220 U_C = 180 V DC, I_L = 1 A
TYPE 1 P2

BUStector 24
925 001 U_C = 45 V DC, I_L = 6 A
TYPE 2 KNX

Two-wire bus systems
Profibus, Modbus RTU, RS 485, CAN Bus

BLITZDUCTORconnect ML2 BD HF 5
927 271 U_C = 8.5 V DC, I_L = 750 mA
TYPE 1 P1

BLITZDUCTOR XT ML4 BD HF 5 [1]
920 371 U_C = 6.0 V DC, I_L = 1.0 A
TYPE 1 P1

Ethernet interfaces
BACnet, Profinet, Modbus TCP

DEHNpatch CL8 EA 4PPOE
929 161 U_C = 3.3 V DC, $U_{C,PoE}$ = 58 V DC, I_L = 1.5 A, f_G = 500 MHz
TYPE 1 P2

HLK

Analogue signal with/without auxiliary power
(up to max. 33 V DC / 23.3 V AC)

BLITZDUCTORconnect ML2 BE 24
927 224 U_C = 33 V DC / 23.3 V AC, I_L = 0.75 A
TYPE 1 P1

BLITZDUCTOR XT ML4 BE 24 [1]
920 324 U_C = 33 V DC / 23.3 V AC, I_L = 0.75 A
TYPE 1 P1

Damper and valve actuators
(up to max. 45 V DC / 31 V AC)

BLITZDUCTOR XT ML4 BE 36 [1]
920 336 U_C = 45 V DC / 31 V AC, I_L = 1.8 A
TYPE 1 P1

Temperature measurement
(PT 100, PT 1000, Ni 1000, NTC, PTC)

BLITZDUCTOR XT ML4 BC 24 [1]
920 354 U_C = 33 V DC / 23.3 V AC, I_L = 0.75 A
TYPE 1 P1

Safety and security technology

Video security systems / IP cameras

DEHNpatch CL8 EA 4PPOE
929 161 U_C = 3.3 V DC, $U_{C,PoE}$ = 58 V DC, I_L = 1.5 A, f_G = 500 MHz
TYPE 1 P2

DEHNpatch outdoor CLE IP66
929 221 U_C = 60 V DC, I_L = 1 A, f_G = 250 MHz
TYPE 2 P1

Burglar alarm systems
(e.g. 12 V DC operating voltage)

BLITZDUCTORconnect ML2 BD 12 [2]
927 242 U_C = 15 V DC / 10.6 V AC, I_L = 0.75 A
TYPE 1 P1

BLITZDUCTOR XT ML2 BD S 12 [1], [2]
920 242 U_C = 15 V DC / 10.6 V AC [1], I_L = 1.0 A
TYPE 1 P1

Fire alarm systems
(e.g. ring, loop and stub line)

BLITZDUCTOR XT ML2 BD S 48 [1], [2]
920 245 U_C = 54 V DC / 38.1 V AC, I_L = 1.0 A
TYPE 1 P1

BLITZDUCTOR XT ML2 BE S 24 [1], [2]
920 224 U_C = 33 V DC / 23.3 V AC, I_L = 0.75 A
TYPE 1 P1

Fire brigade peripherals
(e.g. FBKD, release element, FIOS)

BLITZDUCTOR XT ML2 BD S 24 [1]
920 344 U_C = 45 V DC / 31 V AC, I_L = 1.8 A
TYPE 1 P1

Voice alarm systems (VAS)

DEHNVARIO 2 BY S 150 FM
928 430 U_C = 150 V DC, I_L = 10 A
TYPE 1 P2

Telecommunications / network

VDSL, VVDSL, G.Fast

BLITZDUCTORconnect ML2 B 180
927 210 U_C = 180 V DC, I_L = 1.2 A
TYPE 1 P1

BLITZDUCTOR XT ML2 B 180 [1]
920 211 U_C = 180 V DC, I_L = 1.2 A
TYPE 1 P1

DEHNrapid LSA 10 B 180 FSD
907 401 U_C = 180 V DC, I_L = 0.4 A
TYPE 1 C

DEHNbox TC B 180
922 220 U_C = 180 V DC, I_L = 1 A
TYPE 1 P2

Network

DEHNpatch CL8 EA 4PPOE
929 161 U_C = 3.3 V DC, $U_{C,PoE}$ = 58 V DC, I_L = 1.5 A, f_G = 500 MHz
TYPE 1 P2

DEHNpatch outdoor CLE IP66
929 221 U_C = 60 V DC, I_L = 1 A, f_G = 250 MHz
TYPE 2 P1

Separable	Visual indication
DIN rail mounting	Wall mounting
	Pole mounting
Push-in connection	Arrester on LSA disconnection block
Screw connection	IP66 (outdoor use)
RJ45	[1] In combination with base part BXT BAS, 920 300
RFID Life Check	[2] Manufacturer-specific deviations possible