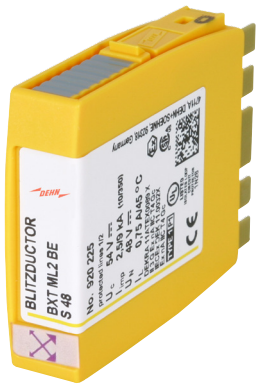
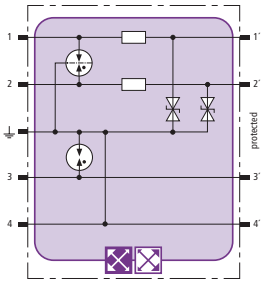
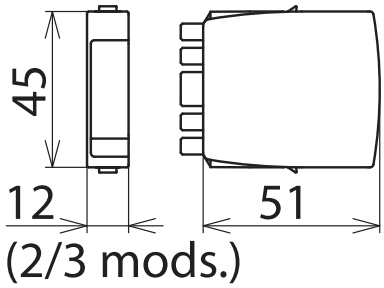
BXT ML2 BE S 48 (920 225)

- LifeCheck SPD monitoring function
- Optimal protection of two single lines and the cable shield
- For use in conformity with the lightning protection zone concept at the boundaries from 0_A – 2 and higher





Basic circuit diagram



Dimension drawing

Space-saving combined lightning current and surge arrester module with LifeCheck feature for protecting two single lines with common reference potential as well as unbalanced interfaces, with direct or indirect shield earthing. If LifeCheck detects thermal or electrical overload, the arrester has to be replaced. This status is indicated contactlessly by the DEHNrecord LC / SCM / MCM reader.

Type	**BXT ML2 BE S 48**
Part No.	**920 225**
Standards	
Certification	UL
UL Standard	UL 497b
UL File Number	E156818
Test values according to UL 497b	
Type (SPD classification)	BXT ML2 BE S 48
Strike voltage Line to Ground 100 V/s min.	59 V
Strike voltage Line to Ground 100 V/s max.	67 V
Strike voltage Line to Line 100 V/s min.	72 V
Strike voltage Line to Line 100 V/s max.	133 V
Surge voltage Line to Ground 100 V/s min.	59 V
Surge voltage Line to Ground 100 V/s max.	70 V
Surge voltage Line to Line 100 V/s min.	118 V
Surge voltage Line to Line 100 V/s max.	140 V
Technical data	
SPD monitoring system	LifeCheck
SPD class	TYPE 1 P1
Nominal voltage (U_N)	48 V
Max. continuous operating voltage DC (U_C)	54 V
Max. continuous operating a.c. voltage (U_C)	38.1 V
Nominal current at 45 °C (I_L)	0.75 A
D1 Total lightning impulse current (10/350 µs) (I_{imp})	9 kA
D1 Lightning impulse current (10/350 µs) per line (I_{imp})	2.5 kA
C2 Total nominal discharge current (8/20 µs) (I_n)	20 kA
C2 Nominal discharge current (8/20 µs) per line (I_n)	10 kA
Voltage protection level line-line for I_{imp} D1 (U_P)	≤ 160 V
Voltage protection level line-PG for I_{imp} D1 (U_P)	≤ 95 V
Voltage protection level line-line at 1 kV/µs C3 (U_P)	≤ 140 V
Voltage protection level line-PG at 1 kV/µs C3 (U_P)	≤ 70 V
Series resistance per line	1.8 Ohm
Cut-off frequency line-PG (f_G)	8.7 MHz
Capacitance line-line (C)	≤ 0.35 nF
Capacitance line-PG (C)	≤ 0.7 nF
Operating temperature range (T_U)	-40 °C ... +80 °C
Degree of protection (with plugged-in protection module)	IP 20
Pluggable into	BXT BAS / BSP BAS 4 base part
Earthing via	BXT BAS / BSP BAS 4 base part

Technical data	
Enclosure material	polyamide PA 6.6
Colour	yellow
Test standards	IEC 61643-21 / EN 61643-21
Approvals	CSA, UL 497B, ATEX, IECEx, CSA & USA Hazloc, SIL
SIL classification	up to SIL3 *)
ATEX approvals	DEKRA 11ATEX0089 X: II 3 G Ex nA IIC T4 Gc
IECEx approvals	DEK 11.0032X: Ex nA IIC T4 Gc
CSA & USA Hazloc approvals (1)	2516389: Class I Div. 2 GP A, B, C, D T4
CSA & USA Hazloc approvals (2)	2516389: Class I Zone 2, AEx nA IIC T4
China Compulsory Certification	CCC No. 2021312304001155

Masterdata	
Net weight	20.6 g/pc(s)
GTIN	4013364118379
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

© DEHN, Inc. • 500 S Main Street, Suite 115 • Mooresville, NC 28115 • United States • Tel. +1 877-927-6510 • contactDEHN@dehn.us • www.dehn.us

: 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