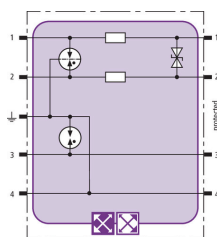


## BXT ML2 BD S 12 (920 242)

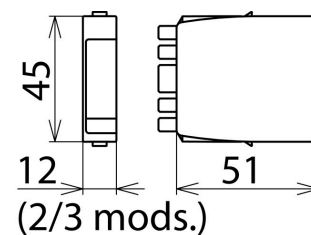
- LifeCheck SPD monitoring function
- Optimal protection of one pair and the cable shield
- For installation in conformity with the lightning protection zone concept at the boundaries from  $0_A -2$  and higher



Figure without obligation



Basic circuit diagram BXT ML2 BD S 12



Dimension drawing BXT ML2 BD S 12

Space-saving combined lightning current and surge arrester module with LifeCheck feature for protecting one pair of unearthed balanced 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 BD S 12                            |
|--|--|
| Part No.   | 920 242                                    |
| SPD monitoring system  | LifeCheck                                  |
| SPD class  | TYPE 1 Pt                                  |
| Nominal voltage ( $U_N$ )  | 12 V                                       |
| Max. continuous operating voltage (d.c.) ( $U_C$ )                   | 15 V                                       |
| Max. continuous operating voltage (a.c.) ( $U_C$ )                   | 10.6 V                                     |
| Nominal current at 45 °C ( $I_N$ )                                   | 1.0 A                                      |
| D1 Total lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )    | 9 kA                                       |
| D1 Lightning impulse current (10/350 $\mu$ s) per line ( $I_{imp}$ ) | 2.5 kA                                     |
| C2 Total nominal discharge current (8/20 $\mu$ s) ( $I_n$ )          | 20 kA                                      |
| C2 Nominal discharge current (8/20 $\mu$ s) per line ( $I_n$ )       | 10 kA                                      |
| Voltage protection level line-line for $I_{imp}$ D1 ( $U_p$ )        | $\leq 26$ V                                |
| Voltage protection level line-PG for $I_{imp}$ D1 ( $U_p$ )          | $\leq 550$ V                               |
| Voltage protection level line-line at 1 kV/ $\mu$ s C3 ( $U_p$ )     | $\leq 19$ V                                |
| Voltage protection level line-PG at 1 kV/ $\mu$ s C3 ( $U_p$ )       | $\leq 550$ V                               |
| Series resistance per line   | 1.0 ohm(s)                                 |
| Cut-off frequency line-line ( $f_c$ )                                | 2.8 MHz                                    |
| Capacitance line-line (C)  | $\leq 2.0$ nF                              |
| Capacitance line-PG (C)  | $\leq 25$ pF                               |
| 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              |
| Enclosure material   | polyamide PA 6.6                           |
| Colour   | yellow                                     |
| Test standards   | IEC 61643-21 / EN 61643-21                 |
| Approvals  | CSA, ATEX, IECEx, CSA & USA Hazloc, SIL    |
| SIL classification   | up to SIL3 <sup>*)</sup>                   |
| 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                   |
| Weight   | 21 g                                       |
| Customs tariff number (Comb. Nomenclature EU)                        | 85363010                                   |
| GTIN   | 4013364118362                              |
| PU   | 1 pc(s)                                    |

<sup>\*)</sup> For more detailed information, please visit [www.dehn-international.com](http://www.dehn-international.com).

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.