

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors



## Yellow / Line SPDs



### Features

- Universal lightning current and surge arrester
  - For protecting data bus interfaces as well as measuring and control circuits
  - High discharge capacity of 3kA (10/350  $\mu$ s), 10 kA (8/20  $\mu$ s)
  - Maximum impulse current carrying capability (8/20  $\mu$ s)  $I_{max}$  up to 20 kA
  - Low voltage protection level, also capable of protecting terminal equipment
- Compact arrester
  - Fast and simple cable connection thanks to push-in connection technology
  - High system availability thanks to fail-safe performance
- Function-optimized design with a width of 6mm
  - LifeCheck and visual status indication integrated in the module
  - Simple remote signaling of status when used with optional remote signaling unit
  - Vibration and shock tested for safe operation

The BLITZDUCTORconnect series of combined lightning current and surge arresters features compact design and is designed for universal use and system protection in industrial environments, at information technology signal interfaces, and in automation or measuring and control systems.

With their high lightning current discharge capacity and low voltage protection levels, these lightning current and surge arresters offer reliable protection of terminal equipment.

These arresters are available to protect two single lines sharing a common reference potential (unbalanced interfaces) or one unearthed pair (balanced interface).

Cables are connected using vibration-proof push-in connection technology. Stripped solid or flexible conductors with wire end ferrules can be clamped and contacted quickly, easily and without tools. When rewiring, the conductor is freed from the clamping point simply by pressing the release button and can be reconnected easily. Holes in the housing at each conductor terminal allow measurements of the signal circuit using test probes.

The arresters of the BLITZDUCTORconnect series are equipped with a mechanical status indicator which clearly shows the status of the arrester (via a green or red indicator flag). In the event of arrester overload, the arrester or arrester group to be replaced is identified visually (red indicator flag).

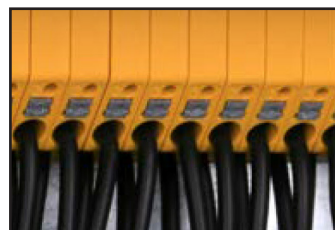
The status is reported to a higher-level control system via a floating break contact of the remote signaling unit.

The combination of the transmitter and receiver units into a single device minimizes the wiring effort required when installing the remote signaling unit. At the same time, there is no need for additional setup of the modules.

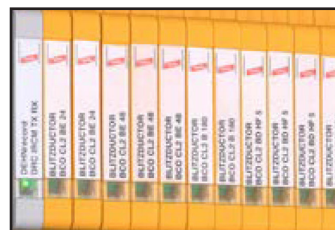
A defined fail-safe function (fail-open) disconnects the overloaded components (decoupling impedance, fine protection) from the signal circuit. However, the signal circuit itself remains active and is not interrupted. The system circuit remains available, and operation is maintained until the arrester is replaced. In this way, plants and systems can be operated safely and are highly available at all times.



**Quickly tested – at a glance**  
Integrated indication for easy and fast maintenance



**Connect = Protect**  
Push-in connection technology for simple and fast cable connection



**Easy maintenance**  
Simple status message with monitoring unit for arrester groups

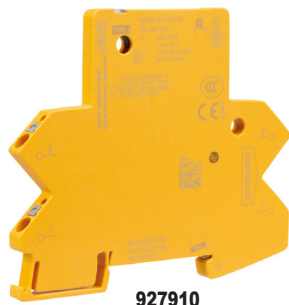


**Maximum system availability**  
Approvals for use in intrinsically safe measuring circuits

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors



## Yellow / Line SPDs



UL file # E156818, E508234 Displayed as BCO CL2  
CSA file # 80066004 Displayed as BCO CL2  
SIL up to SIL3 as of October 2019

### DEHN BLITZDUCTORconnect Data and Signal Surge Protectors Selection Guide

| Part Number            | Price   | Protection                                                                                                                                  | SPD Class                    | Maximum Continuous Operating Voltage (DC) ( $U_c$ ) | Nominal Current ( $I_L$ ) | D1 Lightning Impulse Current (10/350 $\mu$ s) Per Line ( $I_{imp}$ ) | C2 Total Nominal Discharge Current (8/20 $\mu$ s) ( $I_n$ ) | Series Resistance Per Line | Cut-Off Frequency Line-Line (fG) | Approvals                     | Drawing             |
|------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|---------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|----------------------------|----------------------------------|-------------------------------|---------------------|
| <a href="#">927910</a> | \$35.50 | Two single lines for lightning equipotential bonding, as well as indirect earthing of shielded cables.                                      | Type 1                       | 180V                                                | 1.2 A                     | 1.5 kA                                                               | 10kA                                                        | 0 $\Omega$                 | 150MHz                           | UL, CSA, ATEX, IECEx, CCC SIL | <a href="#">PDF</a> |
| <a href="#">927924</a> | \$63.50 | Interface/signal 0-20 mA, 4-20 mA (also with HART). Two single lines sharing a common reference potential as well as unbalanced interfaces. | Type 1 (P2 per EN 61000-4-5) | 33V                                                 | 0.75 A                    | 1.5 kA                                                               | 10kA                                                        | 1 $\Omega$                 | 3.4 MHz                          | UL, CSA, ATEX, IECEx, CCC SIL | <a href="#">PDF</a> |
| <a href="#">927944</a> | \$63.50 | Interface/signal 4-20 mA (also with HART). One pair of unearthened balanced interfaces.                                                     | Type 1 (P2 per EN 61000-4-5) | 36V                                                 | 0.75 A                    | 1.5 kA                                                               | 10kA                                                        | 1 $\Omega$                 | 5.8 MHz                          | UL, CSA, ATEX, IECEx, CCC SIL | <a href="#">PDF</a> |
| <a href="#">927971</a> | \$73.00 | One pair of unearthened high-frequency bus systems as well as balanced interfaces                                                           | Type 1 (P2 per EN 61000-4-5) | 8.5 V                                               | 0.75 A                    | 1.5 kA                                                               | 10kA                                                        | 1 $\Omega$                 | 100MHz                           | UL, CSA, ATEX, IECEx, CCC SIL | <a href="#">PDF</a> |

### DEHN BLITZDUCTORconnect Data and Signal Surge Protectors Accessories Selection Guide

| Part Number            | Price   | Description                                                                                                                                                                                                                                                                                                       | Input Voltage Range (DC) ( $U_{IN}$ ) | Maximum Rated Current Consumption ( $I_{IN}$ ) | Operating Temperature Range ( $T_U$ ) | Approvals       | Drawing             |
|------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|---------------------------------------|-----------------|---------------------|
| <a href="#">910710</a> | \$96.00 | DEHNrecord condition monitoring unit, DIN rail mounted set with integrated visual transmitter/receiver as well as visual reverse unit for monitoring the condition of BLITZDUCTORconnect arresters with LifeCheck. Visual status indication via LED group display combined with remote signaling (break contact). | 6-35 VDC                              | $\leq 10$ mA                                   | -30°C to 70°C [-22°F to 158°F]        | UL, ATEX, IECEx | <a href="#">PDF</a> |

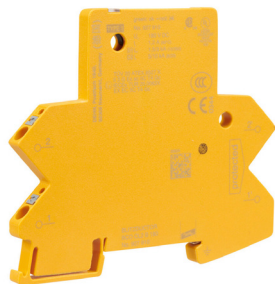


[910710](#)

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors

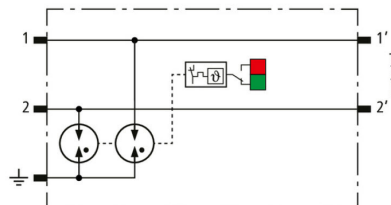


## Yellow / Line SPDs



### 927910

Space-saving, compact lightning current arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting two single lines for lightning equipotential bonding as well as indirect grounding of shielded cables.



### DEHN BLITZDUCTORconnect 927910 Data and Signal Surge Protector Specifications

|                                                                                                                                       |                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPD Class</b>                                                                                                                      | Type 1                                                                                                                                                      |
| <b>Impulse Category</b>                                                                                                               | D1, C2, C3                                                                                                                                                  |
| <b>Nominal Voltage (<math>U_N</math>)</b>                                                                                             | 180V                                                                                                                                                        |
| <b>Max. Continuous Operating Voltage (DC) (<math>U_c</math>)</b>                                                                      | 180V                                                                                                                                                        |
| <b>Max. Continuous Operating Voltage (AC) (<math>U_c</math>)</b>                                                                      | 127V                                                                                                                                                        |
| <b>Nominal Current (<math>I_L</math>)</b>                                                                                             | 1.2 A                                                                                                                                                       |
| <b>D1 Total Lightning Impulse Current (10/350 <math>\mu</math>s) (<math>I_{imp}</math>)</b>                                           | 3kA                                                                                                                                                         |
| <b>D1 Lightning Impulse Current (10/350 <math>\mu</math>s) per line (<math>I_{imp}</math>)</b>                                        | 1.5 kA                                                                                                                                                      |
| <b>C2 Total Nominal Discharge Current (8/20 <math>\mu</math>s) (<math>I_n</math>)</b>                                                 | 10kA                                                                                                                                                        |
| <b>C2 Nominal Discharge Current (8/20 <math>\mu</math>s) per line (<math>I_n</math>)</b>                                              | 5kA                                                                                                                                                         |
| <b>Voltage Protection Line-Line for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                        | $\leq 1100V$                                                                                                                                                |
| <b>Voltage Protection Level Line-PG for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                    | $\leq 800V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-Line for 1 kV/<math>\mu</math>s C3 (<math>U_p</math>)</b>                                            | $\leq 950V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-PG for 1 kV/<math>\mu</math>s (<math>U_p</math>)</b>                                                 | $\leq 700V$                                                                                                                                                 |
| <b>Series Resistance Per Line</b>                                                                                                     | 0 $\Omega$                                                                                                                                                  |
| <b>Cut-off Frequency Line-Line at 100 ohms (<math>f_c</math>)</b>                                                                     | 150MHz                                                                                                                                                      |
| <b>Capacitance Line-Line (C)</b>                                                                                                      | $\leq 10pF$                                                                                                                                                 |
| <b>Capacitance Line-PG (C)</b>                                                                                                        | $\leq 13pF$                                                                                                                                                 |
| <b>Operating Temperature Range (<math>T_U</math>)</b>                                                                                 | -40°C to 80°C [-40°F to 176°F]                                                                                                                              |
| <b>Operating State / Fault Indication</b>                                                                                             | Green/red                                                                                                                                                   |
| <b>Degree of Protection</b>                                                                                                           | IP20                                                                                                                                                        |
| <b>For Mounting On</b>                                                                                                                | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Connection (Input / Output)</b>                                                                                                    | Push-in / push-in                                                                                                                                           |
| <b>Cross-Sectional Area, Solid</b>                                                                                                    | 0.2-2.5 mm <sup>2</sup> (24 - 14 AWG)                                                                                                                       |
| <b>Cross-Sectional Area, Flexible</b>                                                                                                 | 0.2-2.5 mm <sup>2</sup> (24 - 14 AWG)                                                                                                                       |
| <b>Grounding Via</b>                                                                                                                  | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Enclosure Material</b>                                                                                                             | Polyamide PA 6.6                                                                                                                                            |
| <b>Color</b>                                                                                                                          | Yellow                                                                                                                                                      |
| <b>Test Standards</b>                                                                                                                 | IEC 61643-21 / EN 61643-21                                                                                                                                  |
| <b>Approvals</b>                                                                                                                      | UL, CSA, ATEX, IECEx, CCC, SIL<br>UL file # E156818 Displayed as BCO CL2<br>CSA file # 80066004 Displayed as BCO CL2<br>SIL (up to SIL3) as of October 2019 |
| <b>ATEX Approvals</b>                                                                                                                 | TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc                                                                                                                   |
| <b>IECEx Approvals</b>                                                                                                                | IECEx TUR 20.0063X: Ex ec IIC T4 Gc                                                                                                                         |
| <b>China Compulsory Certification</b>                                                                                                 | CCC no. 2021312304001192                                                                                                                                    |
| <b>Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG]</b>                                                                | 10kA (10x)                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG at 1 kV/<math>\mu</math>s C3 After Being Subjected to <math>I_{max}</math> (<math>U_p</math>)</b> | $\leq 700V$                                                                                                                                                 |
| <b>Weight</b>                                                                                                                         | 33g [1.16 oz]                                                                                                                                               |

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors

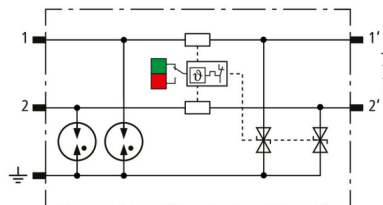


## Yellow / Line SPDs



### 927924

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting two single lines sharing a common reference potential as well as unbalanced interfaces.



### DEHN BLITZDUCTORconnect 927924 Data and Signal Surge Protector Specifications

|                                                                                                                                       |                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPD Class</b>                                                                                                                      | Type 1 P1                                                                                                                                                   |
| <b>Impulse Category</b>                                                                                                               | D1, C1, C2, C3, B2                                                                                                                                          |
| <b>Nominal Voltage (<math>U_N</math>)</b>                                                                                             | 24V                                                                                                                                                         |
| <b>Max. Continuous Operating Voltage (DC) (<math>U_C</math>)</b>                                                                      | 33V                                                                                                                                                         |
| <b>Max. Continuous Operating Voltage (AC) (<math>U_C</math>)</b>                                                                      | 23.3 V                                                                                                                                                      |
| <b>Nominal Current (<math>I_L</math>)</b>                                                                                             | 0.75 A                                                                                                                                                      |
| <b>D1 Total Lightning Impulse Current (10/350 <math>\mu</math>s) (<math>I_{imp}</math>)</b>                                           | 3kA                                                                                                                                                         |
| <b>D1 Lightning Impulse Current (10/350 <math>\mu</math>s) per line (<math>I_{imp}</math>)</b>                                        | 1.5 kA                                                                                                                                                      |
| <b>C2 Total Nominal Discharge Current (8/20 <math>\mu</math>s) (<math>I_n</math>)</b>                                                 | 10kA                                                                                                                                                        |
| <b>C2 Nominal Discharge Current (8/20 <math>\mu</math>s) per line (<math>I_n</math>)</b>                                              | 5kA                                                                                                                                                         |
| <b>Voltage Protection Line-Line for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                        | $\leq 90V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                    | $\leq 75V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-Line for <math>I_n</math> C1 (<math>U_p</math>)</b>                                                  | $\leq 90V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_n</math> C1 (<math>U_p</math>)</b>                                                    | $\leq 75V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-Line for 1kV/<math>\mu</math>s C3 (<math>U_p</math>)</b>                                             | $\leq 85V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for 1kV/<math>\mu</math>s (<math>U_p</math>)</b>                                                  | $\leq 45V$                                                                                                                                                  |
| <b>Series Resistance Per Line</b>                                                                                                     | 1 $\Omega$                                                                                                                                                  |
| <b>Cut-off Frequency Line-Line (<math>f_c</math>)</b>                                                                                 | 3.4 MHz                                                                                                                                                     |
| <b>Capacitance Line-Line (C)</b>                                                                                                      | $\leq 1nF$                                                                                                                                                  |
| <b>Capacitance Line-PG (C)</b>                                                                                                        | $\leq 2nF$                                                                                                                                                  |
| <b>Operating Temperature Range (<math>T_u</math>)</b>                                                                                 | -40°C to 80°C [-40°F to 176°F]                                                                                                                              |
| <b>Operating State / Fault Indication</b>                                                                                             | Green/red                                                                                                                                                   |
| <b>Degree of Protection</b>                                                                                                           | IP20                                                                                                                                                        |
| <b>For Mounting On</b>                                                                                                                | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Connection (Input / Output)</b>                                                                                                    | Push-in / push-in                                                                                                                                           |
| <b>Cross-Sectional Area, Solid</b>                                                                                                    | 0.2-2.5 mm <sup>2</sup> (24 - 14 AWG)                                                                                                                       |
| <b>Cross-Sectional Area, Flexible</b>                                                                                                 | 0.2-2.5 mm <sup>2</sup> (24 - 14 AWG)                                                                                                                       |
| <b>Grounding Via</b>                                                                                                                  | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Enclosure Material</b>                                                                                                             | Polyamide PA 6.6                                                                                                                                            |
| <b>Color</b>                                                                                                                          | Yellow                                                                                                                                                      |
| <b>Test Standards</b>                                                                                                                 | IEC 61643-21 / EN 61643-21                                                                                                                                  |
| <b>Approvals</b>                                                                                                                      | UL, CSA, ATEX, IECEx, CCC, SIL<br>UL file # E156818 Displayed as BCO CL2<br>CSA file # 80066004 Displayed as BCO CL2<br>SIL (up to SIL3) as of October 2019 |
| <b>ATEX Approvals</b>                                                                                                                 | TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc                                                                                                                   |
| <b>IECEx Approvals</b>                                                                                                                | IECEx TUR 20.0063X: Ex ec IIC T4 Gc                                                                                                                         |
| <b>China Compulsory Certification</b>                                                                                                 | CCC no. 2021312304001192                                                                                                                                    |
| <b>Maximum Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG] (<math>I_{max}</math>)</b>                                 | 20kA                                                                                                                                                        |
| <b>Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG]</b>                                                                | 10kA (10x)                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG at 1 kV/<math>\mu</math>s C3 After Being Subjected to <math>I_{max}</math> (<math>U_p</math>)</b> | $\leq 45V$                                                                                                                                                  |
| <b>Weight</b>                                                                                                                         | 33g [1.16 oz]                                                                                                                                               |

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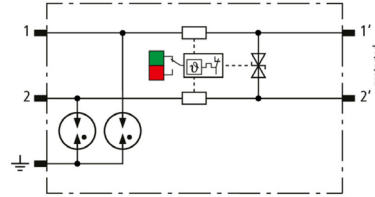


## Yellow / Line SPDs



### 927944

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting one pair of ungrounded balanced interfaces.



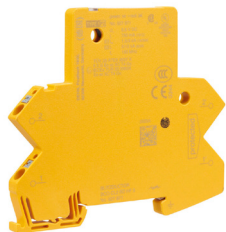
### DEHN BLITZDUCTORconnect 927944 Data and Signal Surge Protector Specifications

|                                                                                                                                       |                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPD Class</b>                                                                                                                      | Type 1 P2                                                                                                                                                   |
| <b>Impulse Category</b>                                                                                                               | D1, C1, C2, C3, B2                                                                                                                                          |
| <b>Nominal Voltage (<math>U_N</math>)</b>                                                                                             | 24V                                                                                                                                                         |
| <b>Max. Continuous Operating Voltage (DC) (<math>U_C</math>)</b>                                                                      | 36V                                                                                                                                                         |
| <b>Max. Continuous Operating Voltage (AC) (<math>U_C</math>)</b>                                                                      | 25.4 V                                                                                                                                                      |
| <b>Nominal Current at 70°C (<math>I_L</math>)</b>                                                                                     | 0.75 A                                                                                                                                                      |
| <b>D1 Total Lightning Impulse Current (10/350 <math>\mu</math>s) (<math>I_{imp}</math>)</b>                                           | 3kA                                                                                                                                                         |
| <b>D1 Lightning Impulse Current (10/350 <math>\mu</math>s) per line (<math>I_{imp}</math>)</b>                                        | 1.5 kA                                                                                                                                                      |
| <b>C2 Total Nominal Discharge Current (8/20 <math>\mu</math>s) (<math>I_n</math>)</b>                                                 | 10kA                                                                                                                                                        |
| <b>C2 Nominal Discharge Current (8/20 <math>\mu</math>s) per line (<math>I_n</math>)</b>                                              | 5kA                                                                                                                                                         |
| <b>Voltage Protection Line-Line for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                        | $\leq 57V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_n</math> C2 (<math>U_p</math>)</b>                                                    | $\leq 600V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-Line for <math>I_n</math> C1 (<math>U_p</math>)</b>                                                  | $\leq 57V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_n</math> C1 (<math>U_p</math>)</b>                                                    | $\leq 600V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-Line for 1kV/<math>\mu</math>s C3 (<math>U_p</math>)</b>                                             | $\leq 46V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for 1kV/<math>\mu</math>s (<math>U_p</math>)</b>                                                  | $\leq 600V$                                                                                                                                                 |
| <b>Series Resistance Per Line</b>                                                                                                     | 1 $\Omega$                                                                                                                                                  |
| <b>Cut-off Frequency Line-Line (<math>f_c</math>)</b>                                                                                 | 5.8 MHz                                                                                                                                                     |
| <b>Capacitance Line-Line (C)</b>                                                                                                      | $\leq 1.5$ nF                                                                                                                                               |
| <b>Capacitance Line-PG (C)</b>                                                                                                        | $\leq 16$ pF                                                                                                                                                |
| <b>Operating Temperature Range (<math>T_o</math>)</b>                                                                                 | -40°C to 80°C [-40°F to 176°F]                                                                                                                              |
| <b>Operating State / Fault Indication</b>                                                                                             | Green/red                                                                                                                                                   |
| <b>Degree of Protection</b>                                                                                                           | IP20                                                                                                                                                        |
| <b>For Mounting On</b>                                                                                                                | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Connection (Input / Output)</b>                                                                                                    | Push-in / push-in                                                                                                                                           |
| <b>Cross-Sectional Area, Solid</b>                                                                                                    | 0.2-2.5 mm <sup>2</sup> (24-14 AWG)                                                                                                                         |
| <b>Cross-Sectional Area, Flexible</b>                                                                                                 | 0.2-2.5 mm <sup>2</sup> (24-14 AWG)                                                                                                                         |
| <b>Grounding Via</b>                                                                                                                  | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Enclosure Material</b>                                                                                                             | Polyamide PA 6.6                                                                                                                                            |
| <b>Color</b>                                                                                                                          | Yellow                                                                                                                                                      |
| <b>Test Standards</b>                                                                                                                 | IEC 61643-21 / EN 61643-21                                                                                                                                  |
| <b>Approvals</b>                                                                                                                      | UL, CSA, ATEX, IECEx, CCC, SIL<br>UL file # E156818 Displayed as BCO CL2<br>CSA file # 80066004 Displayed as BCO CL2<br>SIL (up to SIL3) as of October 2019 |
| <b>ATEX Approvals</b>                                                                                                                 | TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc                                                                                                                   |
| <b>IECEX Approvals</b>                                                                                                                | IECEX TUR 20.0063X: Ex ec IIC T4 Gc                                                                                                                         |
| <b>China Compulsory Certification</b>                                                                                                 | CCC no. 2021312304001192                                                                                                                                    |
| <b>Maximum Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG] (<math>I_{max}</math>)</b>                                 | 20kA                                                                                                                                                        |
| <b>Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG]</b>                                                                | 10kA (10x)                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG at 1 kV/<math>\mu</math>s C3 After Being Subjected to <math>I_{max}</math> (<math>U_p</math>)</b> | $\leq 600V$                                                                                                                                                 |
| <b>Weight</b>                                                                                                                         | 33g [1.16 oz]                                                                                                                                               |

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors

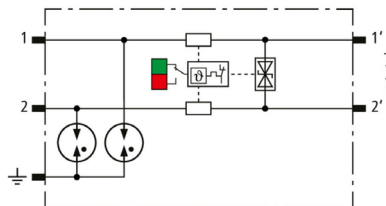


## Yellow / Line SPDs



### 927971

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting one pair of ungrounded high-frequency bus systems as well as balanced interfaces.



### DEHN BLITZDUCTORconnect 927971 Data and Signal Surge Protector Specifications

|                                                                                                                                       |                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPD Class</b>                                                                                                                      | Type 1 P2                                                                                                                                                   |
| <b>Impulse Category</b>                                                                                                               | D1, C1, C2, C3, B2                                                                                                                                          |
| <b>Nominal Voltage (<math>U_N</math>)</b>                                                                                             | 5V                                                                                                                                                          |
| <b>Max. Continuous Operating Voltage (DC) (<math>U_C</math>)</b>                                                                      | 8.5 V                                                                                                                                                       |
| <b>Max. Continuous Operating Voltage (AC) (<math>U_C</math>)</b>                                                                      | 6.0 V                                                                                                                                                       |
| <b>Nominal Current at 70°C (<math>I_N</math>)</b>                                                                                     | 0.75 A                                                                                                                                                      |
| <b>D1 Total Lightning Impulse Current (10/350 <math>\mu</math>s) (<math>I_{imp}</math>)</b>                                           | 3kA                                                                                                                                                         |
| <b>D1 Lightning Impulse Current (10/350 <math>\mu</math>s) per line (<math>I_{imp}</math>)</b>                                        | 1.5 kA                                                                                                                                                      |
| <b>C2 Total Nominal Discharge Current (8/20 <math>\mu</math>s) (<math>I_N</math>)</b>                                                 | 10kA                                                                                                                                                        |
| <b>C2 Nominal Discharge Current (8/20 <math>\mu</math>s) per line (<math>I_N</math>)</b>                                              | 5kA                                                                                                                                                         |
| <b>Voltage Protection Line-Line for <math>I_N</math> C2 (<math>U_p</math>)</b>                                                        | $\leq 42V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_N</math> C2 (<math>U_p</math>)</b>                                                    | $\leq 600V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-Line for <math>I_N</math> C1 (<math>U_p</math>)</b>                                                  | $\leq 42V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for <math>I_N</math> C1 (<math>U_p</math>)</b>                                                    | $\leq 600V$                                                                                                                                                 |
| <b>Voltage Protection Level Line-Line for 1kV/<math>\mu</math>s C3 (<math>U_p</math>)</b>                                             | $\leq 15V$                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG for 1kV/<math>\mu</math>s (<math>U_p</math>)</b>                                                  | $\leq 600V$                                                                                                                                                 |
| <b>Series Resistance Per Line</b>                                                                                                     | 1 $\Omega$                                                                                                                                                  |
| <b>Cut-off Frequency Line-Line (<math>f_c</math>)</b>                                                                                 | 100MHz                                                                                                                                                      |
| <b>Capacitance Line-Line (C)</b>                                                                                                      | $\leq 21pF$                                                                                                                                                 |
| <b>Capacitance Line-PG (C)</b>                                                                                                        | $\leq 15pF$                                                                                                                                                 |
| <b>Operating Temperature Range (<math>T_o</math>)</b>                                                                                 | -40°C to 80°C [-40°F to 176°F]                                                                                                                              |
| <b>Operating State / Fault Indication</b>                                                                                             | Green/red                                                                                                                                                   |
| <b>Degree of Protection</b>                                                                                                           | IP20                                                                                                                                                        |
| <b>For Mounting On</b>                                                                                                                | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Connection (Input / Output)</b>                                                                                                    | Push-in / push-in                                                                                                                                           |
| <b>Cross-Sectional Area, Solid</b>                                                                                                    | 0.2-2.5 mm <sup>2</sup> (24-14 AWG)                                                                                                                         |
| <b>Cross-Sectional Area, Flexible</b>                                                                                                 | 0.2-2.5 mm <sup>2</sup> (24-14 AWG)                                                                                                                         |
| <b>Grounding Via</b>                                                                                                                  | 35mm DIN rails acc. to EN 60715                                                                                                                             |
| <b>Enclosure Material</b>                                                                                                             | Polyamide PA 6.6                                                                                                                                            |
| <b>Color</b>                                                                                                                          | Yellow                                                                                                                                                      |
| <b>Test Standards</b>                                                                                                                 | IEC 61643-21 / EN 61643-21                                                                                                                                  |
| <b>Approvals</b>                                                                                                                      | UL, CSA, ATEX, IECEx, CCC, SIL<br>UL file # E156818 Displayed as BCO CL2<br>CSA file # 80066004 Displayed as BCO CL2<br>SIL (up to SIL3) as of October 2019 |
| <b>ATEX Approvals</b>                                                                                                                 | TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc                                                                                                                   |
| <b>IECEX Approvals</b>                                                                                                                | IECEX TUR 20.0063X: Ex ec IIC T4 Gc                                                                                                                         |
| <b>China Compulsory Certification</b>                                                                                                 | CCC no. 2021312304001192                                                                                                                                    |
| <b>Maximum Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG] (<math>I_{max}</math>)</b>                                 | 20kA                                                                                                                                                        |
| <b>Discharge Current (8/20 <math>\mu</math>s) [1/2-PG], [1+2 - PG]</b>                                                                | 10kA (10x)                                                                                                                                                  |
| <b>Voltage Protection Level Line-PG at 1 kV/<math>\mu</math>s C3 After Being Subjected to <math>I_{max}</math> (<math>U_p</math>)</b> | $\leq 600V$                                                                                                                                                 |
| <b>Weight</b>                                                                                                                         | 33g [1.16 oz]                                                                                                                                               |

# DEHN BLITZDUCTORconnect – Compact Data and Signal Surge Protectors

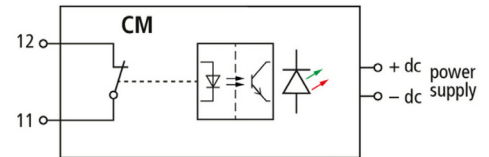


## Yellow / Line SPDs



### 910710

Condition monitoring unit DEHNrecord, set for DIN rail mounted devices with integrated visual transmitter/receiver and visual reverse unit for monitoring the condition of BLITZDUCTORconnect arresters with LifeCheck. Visual status indication via LED group display in combination with remote signaling contact (break contact).



### DEHN BLITZDUCTORconnect 910710 Surge Protector Monitoring System Specifications

|                                                                     |                                                                                          |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Input Voltage Range (DC) (<math>U_{IN}</math>)</b>               | 6-35 VDC                                                                                 |
| <b>Maximum Rated Current Consumption (<math>I_{IN}</math>)</b>      | $\leq 10\text{mA}$                                                                       |
| <b>Distance Between Transmitter/Receiver and Reverse Unit (Max)</b> | $\leq 305\text{mm}$ [12in]                                                               |
| <b>Message: Replacing of SPD Recommended</b>                        | LED, remote signaling contact (break contact)                                            |
| <b>Indicator</b>                                                    | Two-color LED (green, red)                                                               |
| <b>Type of Remote Signaling Contact</b>                             | Break contact (NC)                                                                       |
| <b>Technical Data for Remote Signaling Contact</b>                  | Contact resistance $< 2.5\Omega$ ; leakage current $< 1\mu\text{A}$                      |
| <b>Switching Capacity (DC)</b>                                      | 48V; 500mA, $P_{max}$ 300mW                                                              |
| <b>Test Cycle</b>                                                   | Continuous                                                                               |
| <b>Operating Temperature Range (<math>T_U</math>)</b>               | $-40^\circ\text{C}$ to $80^\circ\text{C}$ [ $-40^\circ\text{F}$ to $176^\circ\text{F}$ ] |
| <b>Degree of Protection</b>                                         | IP20                                                                                     |
| <b>For Mounting On</b>                                              | 35mm DIN rails acc. to EN 60715                                                          |
| <b>Connection (Input / Output)</b>                                  | Push-in / push-in                                                                        |
| <b>Cross-Sectional Area, Solid</b>                                  | $0.2\text{-}2.5\text{ mm}^2$ (24-14 AWG)                                                 |
| <b>Cross-Sectional Area, Flexible</b>                               | $0.2\text{-}2.5\text{ mm}^2$ (24-14 AWG)                                                 |
| <b>Enclosure Material</b>                                           | Polyamide PA 6.6                                                                         |
| <b>Color</b>                                                        | Gray                                                                                     |
| <b>Test Standards</b>                                               | EN 61010-1                                                                               |
| <b>Approvals</b>                                                    | CSA, UL<br>UL file # E508234<br>CSA file # 80066004 Displayed as BCO CL2                 |
| <b>Package Includes</b>                                             | Transmitter-receiver unit / reverse unit                                                 |
| <b>Weight</b>                                                       | 52g [1.83 oz]                                                                            |

