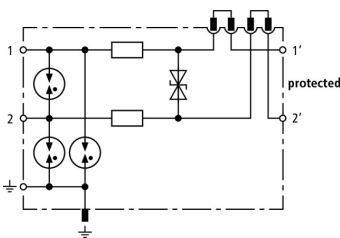


## DCO SD2 MD EX 24 (917 960)

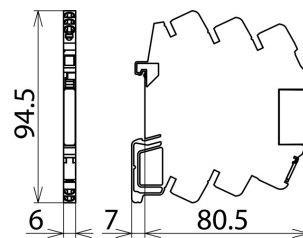
- For universal use in Ex(i) circuits
- Disconnection module for disconnecting signal circuits for maintenance work
- For installation in conformity with the lightning protection zone concept at the boundaries from  $0_B -2$  and higher



Figure without obligation



Basic circuit diagram DCO SD2 MD EX 24



Dimension drawing DCO SD2 MD EX 24

Surge arrester with energy-coordinated low-capacitance protective circuit and disconnection module for disconnecting signal circuits. For protecting one pair in intrinsically safe measuring circuits and bus systems, meets FISCO requirements. Self-capacitance and self-inductance negligibly small. Insulation strength > 500 V to earth.

Type	DCO SD2 MD EX 24
Part No.	917 960
SPD class	<b>TYPE 2 PI</b>
Nominal voltage ( $U_n$ )	24 V
Max. continuous operating voltage (d.c.) ( $U_c$ )	33 V
Max. continuous operating voltage (a.c.) ( $U_c$ )	23 V
Max. input voltage according to EN 60079-11 ( $U_i$ )	30 V
Max. input current according to EN 60079-11 ( $I_i$ )	0.5 A
Nominal current at 80 °C ( $I_n$ )	0.5 A
D1 Lightning impulse current (10/350 $\mu$ s) per line ( $I_{imp}$ )	1 kA
C2 Total nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	10 kA
C2 Nominal discharge current (8/20 $\mu$ s) per line ( $I_n$ )	5 kA
Voltage protection level line-line for $I_n$ C2 ( $U_p$ )	$\leq 50$ V
Voltage protection level line-PG for $I_n$ C2 ( $U_p$ )	$\leq 1500$ V
Voltage protection level line-line at 1 kV/ $\mu$ s C3 ( $U_p$ )	$\leq 45$ V
Voltage protection level line-PG at 1 kV/ $\mu$ s C3 ( $U_p$ )	$\leq 1400$ V
Series resistance per line	1.8 ohms
Cut-off frequency line-line ( $f_c$ )	5.8 MHz
Capacitance line-line (C)	$\leq 1.0$ nF
Capacitance line-PG (C)	$\leq 8$ pF
Operating temperature range	-40 °C ... +80 °C
Degree of protection	IP 00
For mounting on	35 mm DIN rails acc. to EN 60715
Connection (input / output)	spring / spring
Cross-sectional area (solid)	0.34-2.5 mm <sup>2</sup>
Cross-sectional area (flexible)	0.34-2.5 mm <sup>2</sup>
Earthing via	DIN rail / terminal
Enclosure material	polyamide PA 6.6
Colour	blue
Test standards	IEC 61643-21 / EN 61643-21
Approvals	UL, CSA, EACEx, ATEX, IECEx, SIL
SIL classification	up to SIL3 <sup>*)</sup>
ATEX approvals	DEKRA 12ATEX0261 X: II 2(1) G Ex ia [ia Ga] IIC T4,T5,T6 Gb
IECEx approvals	DEK 12.0076X: Ex ia [ia Ga] IIC T4...T6 Gb
Extended technical data:	-----
- Max. discharge current (8/20 $\mu$ s) [1/2 - PG], [1+2 - PG] ( $I_{max}$ )	20 kA
- Voltage protection level line-PG at 1 kV/ $\mu$ s C3 after being subjected to $I_{max}$ ( $U_p$ )	$\leq 1400$ V
Weight	32 g
Customs tariff number	85363010
GTIN	4013364150638
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.