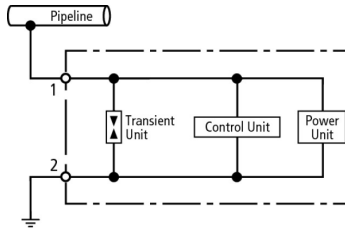


**VCSD 40 IP65 (923 401)**

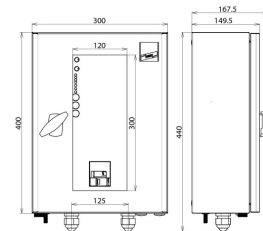
- Protection in case of transient, temporary and long-duration overvoltage
- Does not negatively affect cathodic protection equipment
- Adjustable response threshold for flexible use in a wide range of applications and operating states



Figure without obligation



Basic circuit diagram VCSD 40 IP65



Dimension drawing VCSD 40 IP65

Voltage-controlled smart decoupling device for use in widely distributed and highly networked electrical systems which are influenced by external voltages from various sources (e.g. high-voltage systems, traction power supply systems, low-voltage systems, lightning interference).

- High discharge capacity in case of transient, temporary and long-duration external voltages
- Ensures a save operation of the pipeline system due to low limiting voltages
- Easy integration into monitoring and control systems due to digital and analog in- and outputs

Type Part No.	VCSD 40 IP65 923 401
Transient discharge current (10/350 µs)	100 kA
Transient discharge current (8/20 µs)	100 kA
Temporary discharge current (16.7 Hz, 50 Hz, 60 Hz)	1.1 kA <sub>rms</sub> (up to 200 ms) * <sup>1)</sup>
Temporary discharge current (16.7 Hz, 50 Hz, 60 Hz)	500 A <sub>rms</sub> (up to 1 s)
Long-duration discharge current (16.7 Hz, 50 Hz, 60 Hz)	45 A <sub>rms</sub> (permanently) * <sup>2)</sup>
Transient limiting voltage (up to 1 ms)	≤ 1.25 kV
Temporary limiting voltage (a.c. <sub>rms</sub> ) (1 ... 20 ms)	≤ 940 V (1 kV as per AfK 3)
Temporary limiting voltage (a.c. <sub>rms</sub> ) (20 ... 100 ms)	≤ 660 V (1 kV as per AfK 3)
Temporary limiting voltage (a.c. <sub>rms</sub> ) (100 ... 200 ms)	≤ 400 V (1 kV as per AfK 3)
Long-duration limiting voltage (a.c. <sub>rms</sub> ) (> 200 ms)	max. 50 V (adjustable from 3 to 50 V)
Frequency range (a.c.)	16.7 Hz, 50 Hz, 60 Hz
Max. permissible voltage (d.c.) in discharge mode	±7V d.c.
Max. leakage current in non-discharge mode T <sub>amb</sub> = 20 °C	max. 500 µA
Voltage supply (internal)	by external voltage; 9 V battery integrated
Voltage supply (external, optional)	9 ... 32 V d.c., min. 0.5 A
Operating temperature range (T <sub>U</sub> )	-40 °C ... +80 °C
Terminal 1, 2	M10 screw connections, cross-sectional area: 35 ... 50 mm <sup>2</sup>
PE terminal	M8 (external)
Enclosure material	painted sheet steel, RAL 7035, inspection door with safety glass
Degree of protection	IP 65
Digital output / type of contact	make contact
Switching capacity (a.c.) (digital OUT)	max. 230 V / max. 0.6 A
Switching capacity (d.c.) (digital OUT)	max. 220 V / max. 2 A / max. 60 W
Digital input / type of contact	make contact
Contact data	max. 9 V / 1 mA / 100 ohms
Cross-sectional area of the signal lines	max. 2.5 mm <sup>2</sup> solid / flexible
Battery	9 V block battery, lithium
Dimensions	400 x 300 x 150 mm
Weight	12,15 kg
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364237766
PU	1 pc(s)

\*<sup>1)</sup> Derating depends on the "biasing current" (long-duration discharge current) and on the ambient temperature

\*<sup>2)</sup> Derating depends on the ambient temperature; see operating and installation instructions

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.