

General Description:

The single channel D6002S is a Dummy pass-through module, for field and control side circuits marshalling.

Mounting on customized Termination Boards, in Safe Area / Non Hazardous Location or in Zone 2 / Class I, Division 2.


Technical Data

Electrical Specification:

Rated Voltage: ≤ 30 V

Rated Current: ≤ 0.1 A

Compatibility:

 CE mark compliant, conforms to Directives:
2014/34/EU ATEX, 2014/30/EU EMC, 2014/35/EU LVD, 2011/65/EU RoHS.

Environmental conditions:

Operating: temperature limits – 40 to + 70 °C, relative humidity 95 %, up to 55 °C.

Max altitude: 2000 m a.s.l.

Storage: temperature limits - 45 to + 80 °C.

Safety Description:



ATEX: II 3G Ex ec IIC T4 Gc

IECEX: Ex ec IIC T4 Gc

UL: NI / I / 2 / ABCD / T4

C-UL: NI / I / 2 / ABCD / T4

EAC-EX: 2Ex ec IIC T4 Gc X

CCC: Ex ec IIC T4 Gc

Approvals:

BVS 18 ATEX E 079 X conforms to EN60079-0, EN60079-7.

IECEX BVS 18.0066X conforms to IEC60079-0, IEC60079-7.

UL & C-UL E222308 conforms to UL 61010-1 and UL 121201 for UL and CAN/CSA C22.2 No.61010-1-12 and CSA C22.2 No. 213 for C-UL.

EA3C RU C-IT.AA87.B.00796/21 conforms to GOST 31610.0, GOST 31610.7.

CCC n. 2024322310005795 conforms to GB/T 3836.1, GB/T 3836.3.

Mounting: on customized Termination Board.

Weight: about 110 g.

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm².

Location: installation in Safe Area/Non Hazardous Locations or Zone 2, Group IIC T4 or Class I, Division 2, Group A,B,C,D, T4.

Protection class: IP 20.

Dimensions: Width 12.5 mm, Depth 123 mm, Height 120 mm.

Ordering information

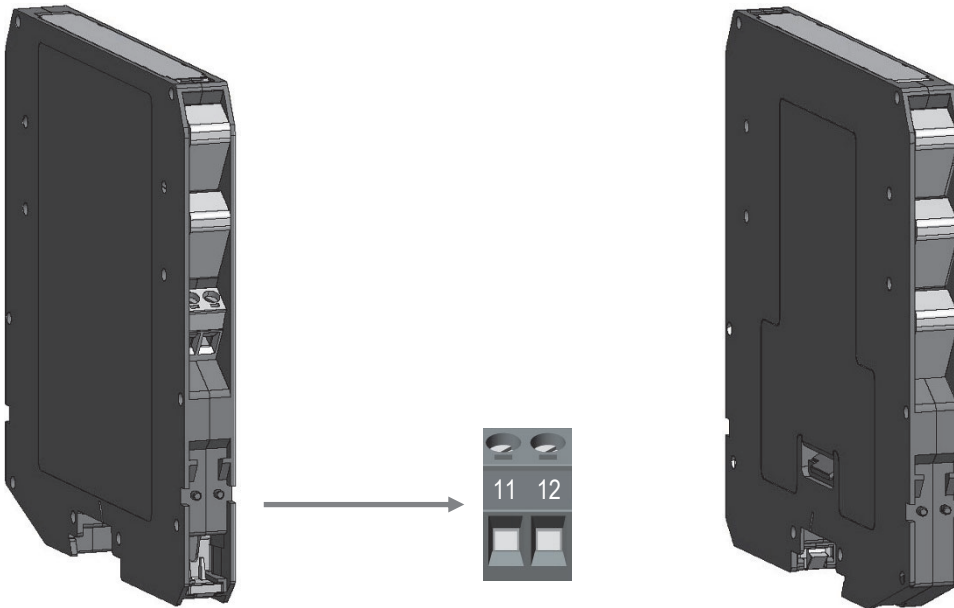
| | | |
|-----------|-------|---|
| Model: | D6002 | |
| 1 channel | | S |

Front Panel and Features



- Installation in Zone 2 / Division 2.
- EMC Compatibility to EN61000-6-2, EN61000-6-4, EN61326-1, EN61326-3-1 for safety systems.
- ATEX, IECEx, UL & UL-C, EAC-EX, CCC Certifications.
- Simplified installation using standard customized Termination Boards.

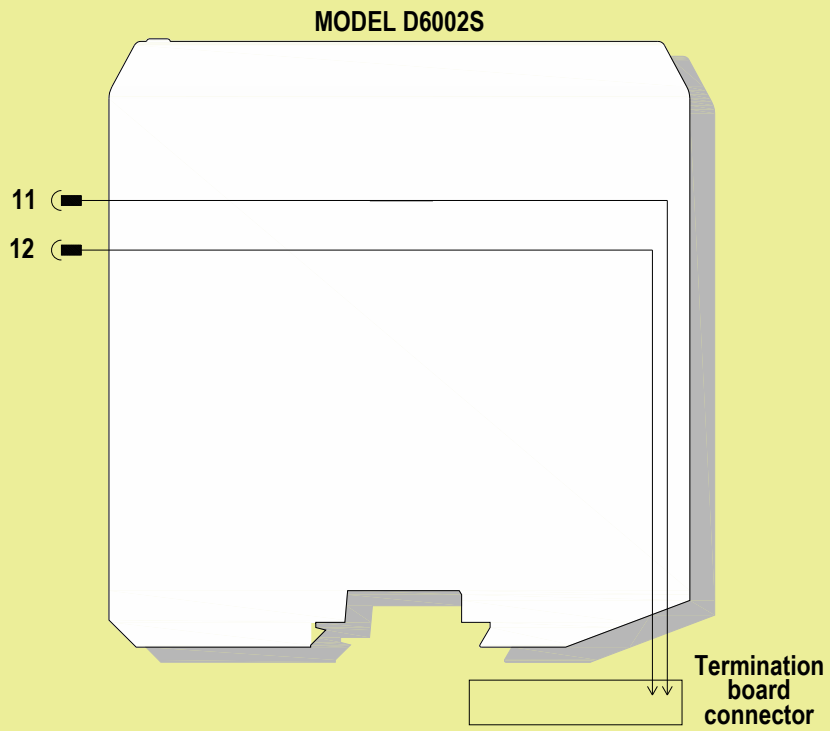
Terminal block connections



SAFE AREA

- | | |
|----|-----------------------|
| 11 | 1st pole of channel 1 |
| 12 | 2nd pole of channel 1 |

SAFE AREA, ZONE 2 GROUP IIC T4,
NON HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, GROUPS A, B, C, D T-Code T4



Warning

D6002 series are electrical apparatus installed into customized Termination Boards located in Safe Area or Zone 2, Group IIC, Temperature T4 Hazardous Area within the specified operating temperature limits Tamb -40 to +70 °C.

D6002 series must be installed, operated and maintained only by qualified personnel, in accordance to the relevant national/international installation standards (e.g. EN/IEC60079-14 Electrical apparatus for explosive gas atmospheres - Part 14: Electrical installations in hazardous areas (other than mines)), following the established installation rules.

De-energize power source (turn off power supply voltage) before plug or unplug the terminal blocks when installed in Hazardous Area or unless area is known to be nonhazardous.

Warning: substitution of components may impair suitability for Zone 2/Division 2. Avertissement: la substitution des composants peut nuire à l'aptitude à la Zone 2/Div. 2.

Explosion Hazard: to prevent ignition of flammable atmospheres, disconnect power before servicing or unless area is known to be nonhazardous. Danger d'Explosion: pour éviter l'inflammation d'atmosphères inflammables, débrancher l'alimentation avant l'entretien ou à moins que région est connue pour être non dangereux.

Failure to properly installation or use of the equipment may risk to damage the unit or severe personal injury.

The unit cannot be repaired by the end user and must be returned to the manufacturer or his authorized representative. Any unauthorized modification must be avoided.

Installation

D6002 series are Dummy pass-through housed in a plastic enclosure suitable for installation on customized Termination Board.

D6002 series can be mounted with any orientation over the entire ambient temperature range.

Electrical connections are accommodated by polarized plug-in removable screw terminal blocks which can be plugged in/out into a powered unit without suffering or causing any damage **(for Zone 2 installations check the area to be nonhazardous before servicing)**. Connect only one individual conductor per each clamping point, use conductors up to 2.5 mm²

(13 AWG) and a torque value of 0.5-0.6 Nm. Use only cables that are suitable for a temperature of at least 85°C. The wiring cables have to be proportionate in base to the current and the length of the cable. On the section "Function Diagram" and enclosure side a block diagram identifies all connections.

Installation and wiring must be in accordance to the relevant national/international installation standards (e.g. EN/IEC60079-14 Electrical apparatus for explosive gas atmospheres - Part 14: Electrical installations in hazardous areas (other than mines)), make sure that conductors are well isolated from each other and do not produce any unintentional connection.

The enclosure provides, according to EN60529, an IP20 minimum degree of protection. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

When installed in EU Zone 2, the unit shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0. When installed in a Class I, Division 2 Hazardous Location, the unit shall be mounted in a supplemental enclosure that provides a degree of protection not less than IP54. The enclosure must have a door or cover accessible only by the use of a tool. The end user is responsible to ensure that the operating temperature of the module is not exceeded in the end use application.

Units must be protected against dirt, dust, extreme mechanical (e.g. vibration, impact and shock) and thermal stress, and casual contacts. If enclosure needs to be cleaned use only a cloth lightly moistened by a mixture of detergent in water.

Electrostatic Hazard: to avoid electrostatic hazard, the enclosure of D6002 series must be cleaned only with a damp or antistatic cloth.

Any penetration of cleaning liquid must be avoided to prevent damage to the unit.

Any unauthorized modification must be avoided.

All circuits connected to D6002 series must comply with the overvoltage category II (or better) according to EN/IEC60664-1.

Start-up

Before powering the unit check that all wires are properly connected, particularly input and output wires. Check conductors for exposed wires that could touch each other causing dangerous unwanted shorts.