



Function element, contactor, SmartWire-DT, DIL/MSC, manual/auto

Part no. **DIL-SWD-32-002**
 Article no. **118561**
 Catalog No. **DIL-SWD-32-002**



Powering Business Worldwide™



Delivery program

| | |
|--|---|
| Product range | SmartWire-DT slave |
| Accessories | SWD contactor modules |
| Function | For connecting the contactors to SmartWire-DT |
| Description | Per contactor 1 module necessary. 1-0-A switch for manual or automatic operation. |
| Messages | Contactor switching position, status of the digital inputs 1 and 2, 1-0-A switch position |
| Commands | Contactor actuation |
| Connection to SmartWire-DT | yes |
| For use with | DILM(C)7... - DILM(C)32 DILM38 DILA MSC-D(E)...(24VDC) |
| Setting | Rotary switch |
| Notes | |
| For current consumption of the contactor coils > 3 A (UL: 2 A) use additional power feed module. | |
| A2 connections must not be bridged. | |
| Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used. | |
| Connection terminals for electrical interlocking are not suitable for safety technology. | |

Technical data

General

| | | | |
|------------------------|----|--------------------|--|
| Standards | | | IEC/EN 61131-2 EN 50178 IEC/EN 60947 |
| Dimensions (W x H x D) | mm | 45 x 38 x 76 | |
| Weight | kg | 0.04 | |
| Mounting | | on DILM7...DILM38 | |
| Mounting position | | as DILM7 to DILM38 | |

Ambient conditions, mechanical

| | | | |
|--|-------------|-----------|------|
| Protection type (IEC/EN 60529, EN50178, VBG 4) | | | IP20 |
| Vibrations (IEC/EN 61131-2:2008) | | | |
| Constant amplitude 3,5 mm | Hz | 5 - 8.4 | |
| Constant acceleration 1 g | Hz | 8.4 - 150 | |
| Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms | Impacts | 9 | |
| Drop to IEC/EN 60068-2-31 | Drop height | mm | 50 |
| Free fall, packaged (IEC/EN 60068-2-32) | | m | 0.3 |

Electromagnetic compatibility (EMC)

| | | | |
|---|-----|----|------------------|
| Overtoltage category | | | II |
| Pollution degree | | | 2 |
| Electrostatic discharge (IEC/EN 61131-2:2008) | | | |
| Air discharge (Level 3) | kV | 8 | |
| Contact discharge (Level 2) | kV | 4 | |
| Electromagnetic fields (IEC/EN 61131-2:2008) | | | |
| 80 - 1000 MHz | V/m | 10 | |
| 1.4 - 2 GHz | V/m | 3 | |
| 2 - 2.7 GHz | V/m | 1 | |
| Radio interference suppression (SmartWire-DT) | | | EN 55011 Class A |
| Burst (IEC/EN 61131-2:2008, Level 3) | | | |
| CAN/DP bus cable | kV | 1 | |
| SmartWire-DT cables | kV | 1 | |
| Radiated RFI (IEC/EN 61131-2:2008, Level 3) | V | 10 | |

Climatic environmental conditions

| | | |
|---|----|---|
| Operating ambient temperature (IEC 60068-2) | °C | - 25 - +60 |
| Condensation | | Take appropriate measures to prevent condensation |
| Storage | °C | - 30 - 70 |
| Relative humidity, non-condensing (IEC/EN 60068-2-30) | % | 5 - 95 |

SmartWire-DT network

| | | |
|-------------------------|-----|----------------------------------|
| Station type | | SmartWire-DT slave |
| Address allocation | | automatic |
| SmartWire-DT status LED | LED | green/orange |
| Connections | | Plug, 8-pole |
| Plug connectors | | External device plug SWD4-8SF2-5 |
| Current consumption | mA | 40 |
| Pick-up power | | |
| for DILM 7-9 | W | 3 |
| for DILM 12-15 | W | 4.5 |
| for DILM 17-38 | W | 12 |
| Pick-up current | | |
| for DILM 7-9 | mA | 125 |
| for DILM 12-15 | mA | 188 |
| for DILM 17-38 | mA | 500 |
| Holding power | | |
| for DILM 7-9 | W | 3 |
| for DILM 12-15 | W | 4.5 |
| for DILM 17-38 | W | 0.5 |
| Holding current | | |
| for DILM 17-38 | mA | 21 |
| for DILM 12-15 | mA | 188 |
| for DILM 7-9 | mA | 125 |

Mode parameter

| | | |
|-----------------------|--|-------------------|
| Manual/automatic mode | | yes |
| Setting | | via Rotary switch |

Connection auxiliary contact

| | | |
|------------------------------------|----------------|-------------------|
| Number | | 2 |
| Rated voltage | U _e | V DC 15 |
| Input current at 1 signal, typical | | mA 3 |
| Potential isolation | | No |
| Cable length | m | ≤ 2.8 |
| Connection type | | Push in terminals |

Terminal capacities

| | | |
|-----------------------|-----------------|------------------------------------|
| Solid | mm ² | 0.2 - 1.5 (AWG 24 - 16) |
| Flexible with ferrule | mm ² | 0.25 - 1.5 |
| Notes | | own supply Minimum length 8 mm. |

Design verification as per IEC/EN 61439

| | | |
|--|-------------------|--|
| Technical data for design verification | | |
| Rated operational current for specified heat dissipation | I _h | A 0 |
| Heat dissipation per pole, current-dependent | P _{vid} | W 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W 0.8 |
| Heat dissipation capacity | P _{diss} | W 0 |
| Operating ambient temperature min. | | °C -25 |
| Operating ambient temperature max. | | °C 60 |
| IEC/EN 61439 design verification | | |
| 10.2 Strength of materials and parts | | |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |

| | |
|--|--|
| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | Meets the product standard's requirements. |
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9 Insulation properties | |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 6.0

PLC's (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss8.1-27-24-26-04 [BAA055011])

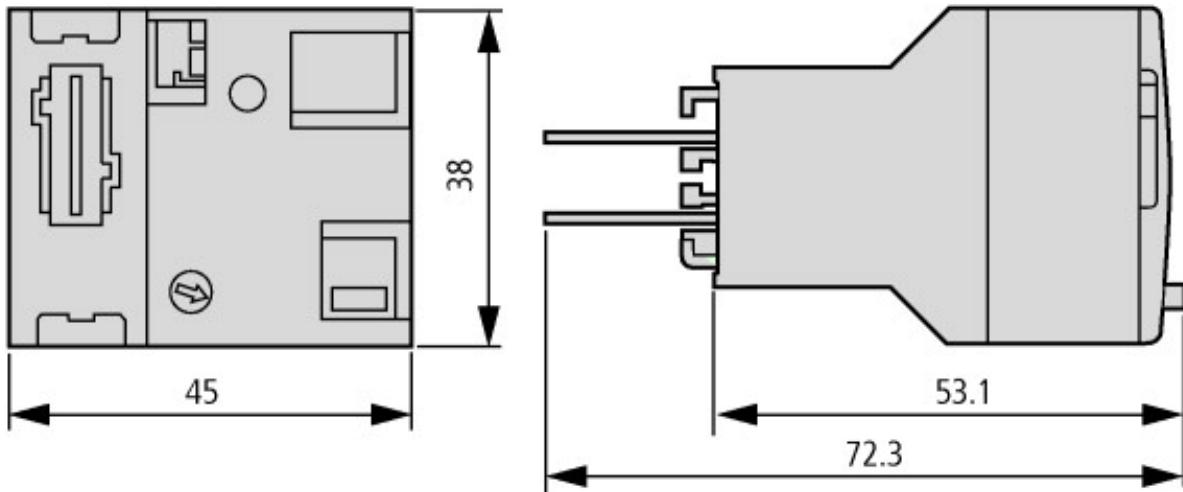
| | | |
|---|----|-------------|
| Supply voltage AC 50 Hz | V | 0 - 0 |
| Supply voltage AC 60 Hz | V | 0 - 0 |
| Supply voltage DC | V | 15 - 15 |
| Voltage type of supply voltage | | DC |
| Number of digital inputs | | 2 |
| Number of digital outputs | | 1 |
| Digital inputs configurable | | No |
| Digital outputs configurable | | No |
| Input current at signal 1 | mA | 3 |
| Permitted voltage at input | V | 15 - 15 |
| Type of voltage (input voltage) | | DC |
| Type of digital output | | - |
| Output current | A | 0.5 |
| Permitted voltage at output | V | 20.4 - 28.8 |
| Type of output voltage | | DC |
| Short-circuit protection, outputs available | | No |
| Number of HW-interfaces industrial Ethernet | | 0 |
| Number of HW-interfaces PROFINET | | 0 |
| Number of HW-interfaces RS-232 | | 0 |
| Number of HW-interfaces RS-422 | | 0 |
| Number of HW-interfaces RS-485 | | 0 |
| Number of HW-interfaces serial TTY | | 0 |
| Number of HW-interfaces parallel | | 0 |
| Number of HW-interfaces Wireless | | 0 |
| Number of HW-interfaces other | | 1 |
| With optical interface | | No |
| Supporting protocol for TCP/IP | | No |

| | | |
|--|----|-------------------------|
| Supporting protocol for PROFIBUS | | No |
| Supporting protocol for CAN | | No |
| Supporting protocol for INTERBUS | | No |
| Supporting protocol for ASI | | No |
| Supporting protocol for KNX | | No |
| Supporting protocol for MODBUS | | No |
| Supporting protocol for Data-Highway | | No |
| Supporting protocol for DeviceNet | | No |
| Supporting protocol for SUCONET | | No |
| Supporting protocol for LON | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for SERCOS | | No |
| Supporting protocol for Foundation Fieldbus | | No |
| Supporting protocol for EtherNet/IP | | No |
| Supporting protocol for AS-Interface Safety at Work | | No |
| Supporting protocol for DeviceNet Safety | | No |
| Supporting protocol for INTERBUS-Safety | | No |
| Supporting protocol for PROFIsafe | | No |
| Supporting protocol for SafetyBUS p | | No |
| Supporting protocol for other bus systems | | Yes |
| Radio standard Bluetooth | | No |
| Radio standard WLAN 802.11 | | No |
| Radio standard GPRS | | No |
| Radio standard GSM | | No |
| Radio standard UMTS | | No |
| IO link master | | No |
| System accessory | | Yes |
| Degree of protection (IP) | | IP20 |
| Type of electric connection | | Spring clamp connection |
| Time delay at signal exchange | ms | 10 - 84 |
| Fieldbus connection over separate bus coupler possible | | Yes |
| Rail mounting possible | | No |
| Wall mounting/direct mounting | | No |
| Front build in possible | | No |
| Rack-assembly possible | | No |
| Suitable for safety functions | | No |
| Category according to EN 954-1 | | 1 |
| SIL according to IEC 61508 | | None |
| Performance level acc. to EN ISO 13849-1 | | None |
| Appendant operation agent (Ex ia) | | No |
| Appendant operation agent (Ex ib) | | No |
| Explosion safety category for gas | | None |
| Explosion safety category for dust | | None |
| Width | mm | 45 |
| Height | mm | 38 |
| Depth | mm | 81 |

Approvals

| | | |
|--------------------------------------|--|--------------------------|
| UL File No. | | E29184 |
| UL Category Control No. | | NKCR |
| CSA File No. | | 2324643 |
| CSA Class No. | | 3211-07 |
| North America Certification | | UL listed, CSA certified |
| Specially designed for North America | | No |

Dimensions



SmartWire-DT protective modules

DIL-SWD-32-...

Additional product information (links)

IL03402036Z SmartWire-DT, Funktionselement für DILM/MSC

IL03402036Z SmartWire-DT, Funktionselement für DILM/MSC ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402036Z2010_08.pdf

MN05006001Z SmartWire-DT, modules

MN05006001Z SmartWire-DT, Teilnehmer - Deutsch ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf

MN05006001Z SmartWire-DT, modules - English ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf

MN05006001Z SmartWire-DT, modulo - italiano ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf

MN05006002Z (AWB2723-1617) SmartWire-DT, The system

MN05006002Z (AWB2723-1617) SmartWire-DT, Das System - Deutsch ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf

MN05006002Z (AWB2723-1617) SmartWire-DT, The system - English ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf

MN05006002Z (AWB2723-1617) SmartWire-DT, il sistema - italiano ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf