



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



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

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)

Overvoltage 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_n	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])

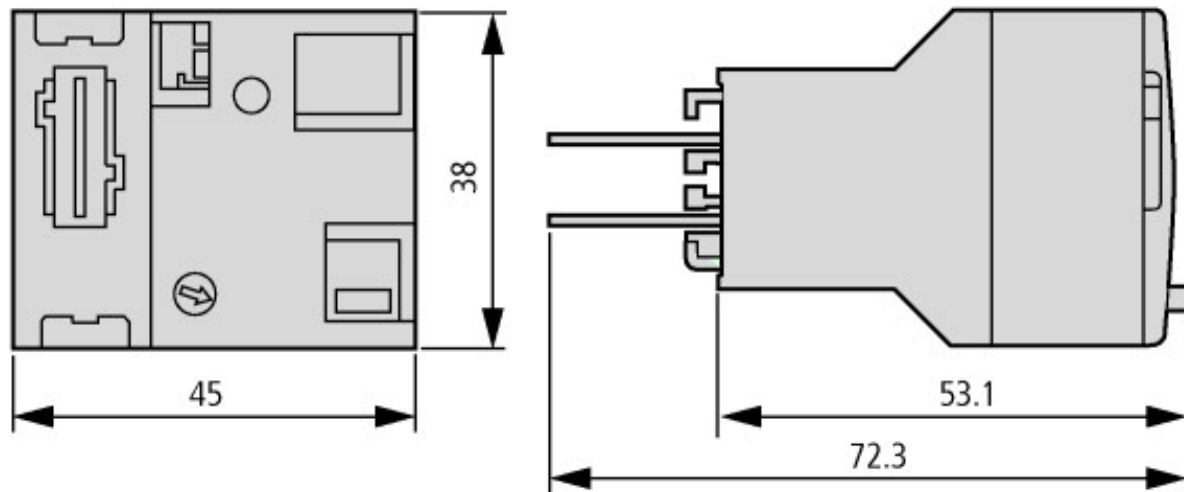
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	15 - 15
Voltage type of supply voltage		DC
Number of digital inputs		2
Number of digital outputs		1
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	3
Permitted voltage at 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/MS

IL03402036Z SmartWire-DT, Funktionselement für DILM/MS 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