



SWD Block module I/O module IP69K, 24 V DC, 8 parameterizable inputs/ outputs with power supply, 4 M12 I/O sockets



Part no. EU6E-SWD-8DD
Catalog No. 174742
Alternate Catalog No. EU6E-SWD-8DD

Delivery program

Product range			SmartWire-DT slave
Basic function			Digital modules
Function			For connection of digital I/O signals
Short Description			Freely configurable inputs/outputs, max. 8 The outputs are short-circuit proof.
Inputs			
Digital			≤ 8
Outputs			
Transistor			≤ 8
Connection to SmartWire-DT			yes

Technical data

General

Standards			IEC/EN 61131-2
Dimensions (W x H x D)		mm	60 x 157 x 34
Weight		kg	0.25
Mounting			Screw fixing (M4)
Mounting position			As required

24 V DC supply for output supply

Power supply			
Power loss	P	W	2.5

Climatic environmental conditions

Climatic proofing			Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3
Air pressure (operation)		hPa	795 - 1080
Ambient temperature			
Operation	θ	°C	-25 - +55
Storage / Transport	θ	°C	-40 - +70
Relative humidity			
Condensation			permissible
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)			IP69K
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 30 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			3
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)			
Supply cable		kV	2
Signal lines		kV	1
SmartWire-DT cables		kV	1
Surge (IEC/EN 61131-2:2008, Level 1)			
Surge power cables		kV	0.5
Surge I/O cables		kV	1
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10

SmartWire-DT network

Station type			SmartWire-DT slave
Setting the baud rate			automatic
Baud rate (data transfer speed)		kbps	maximum 2000
Status SmartWire-DT		LED	Green
SWD-IN			M12 plug (A-keyed), 5 pole
SWD-OUT			M12 socket (A-keyed), 5 pole
Current consumption (24V, without sensor and without I/O supply)			
Current consumption (24 V SWD supply)		mA	114
Sensor supply			
Max. current consumption per M12 I/O plug		mA	70
Overload and short-circuit proof			yes, with diagnostics

Connection supply and I/O

Terminal for I/O sensor			
Connection type			5-pin M12 socket (A-keyed)

Digital inputs

Number of digital inputs/outputs			8, configurable as input or output
Quantity			4
Input current		mA	Normally 4 at 24 V DC
Limit value type 1			Low < 5V DC; High > 15V DC
Input delay			High->Low < 0.2 ms Low->High < 0.2 ms
Status display inputs		LED	yellow

Digital semi-conductor outputs

Quantity			4
Output current		A	0.5
Short-circuit tripping current		A	max. 1.2 over 3 ms
Lamp load	R _{LL}	W	≤ 3
Overload proof			yes, with diagnostics
Switching capacity			EN 60947-5-1 utilization category DC-13
Status display outputs		LED	yellow

Potential isolation

Inputs for SmartWire-DT			No
Outputs to SmartWire-DT			No
Input to input			No
Output to input			no
Output to output			No

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	2.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
Degree of Protection			IP69K
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			Meets the product standard's requirements.
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.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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@ss10.0.1-27-24-26-04 [BAA055014])			
Supply voltage AC 50 Hz		V	0 - 0
Supply voltage AC 60 Hz		V	0 - 0
Supply voltage DC		V	20.4 - 28.8
Voltage type of supply voltage			DC
Number of digital inputs			8
Number of digital outputs			8
Digital inputs configurable			Yes
Digital outputs configurable			Yes
Input current at signal 1		mA	4
Permitted voltage at input		V	20.4 - 28.8
Type of voltage (input voltage)			DC
Type of digital output			Other
Output current		A	0.5
Permitted voltage at output		V	20.4 - 28.8
Type of output voltage			DC
Short-circuit protection, outputs available			Yes
Number of HW-interfaces industrial Ethernet			0
Number of 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 USB		0
Number of HW-interfaces other		0
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)		IP69K
Type of electric connection		Screw connection
Time delay at signal exchange	ms	0.2 - 0.2
Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible		No
Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		None
SIL according to IEC 61508		None
Performance level acc. 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	60.8
Height	mm	156.8

Approvals

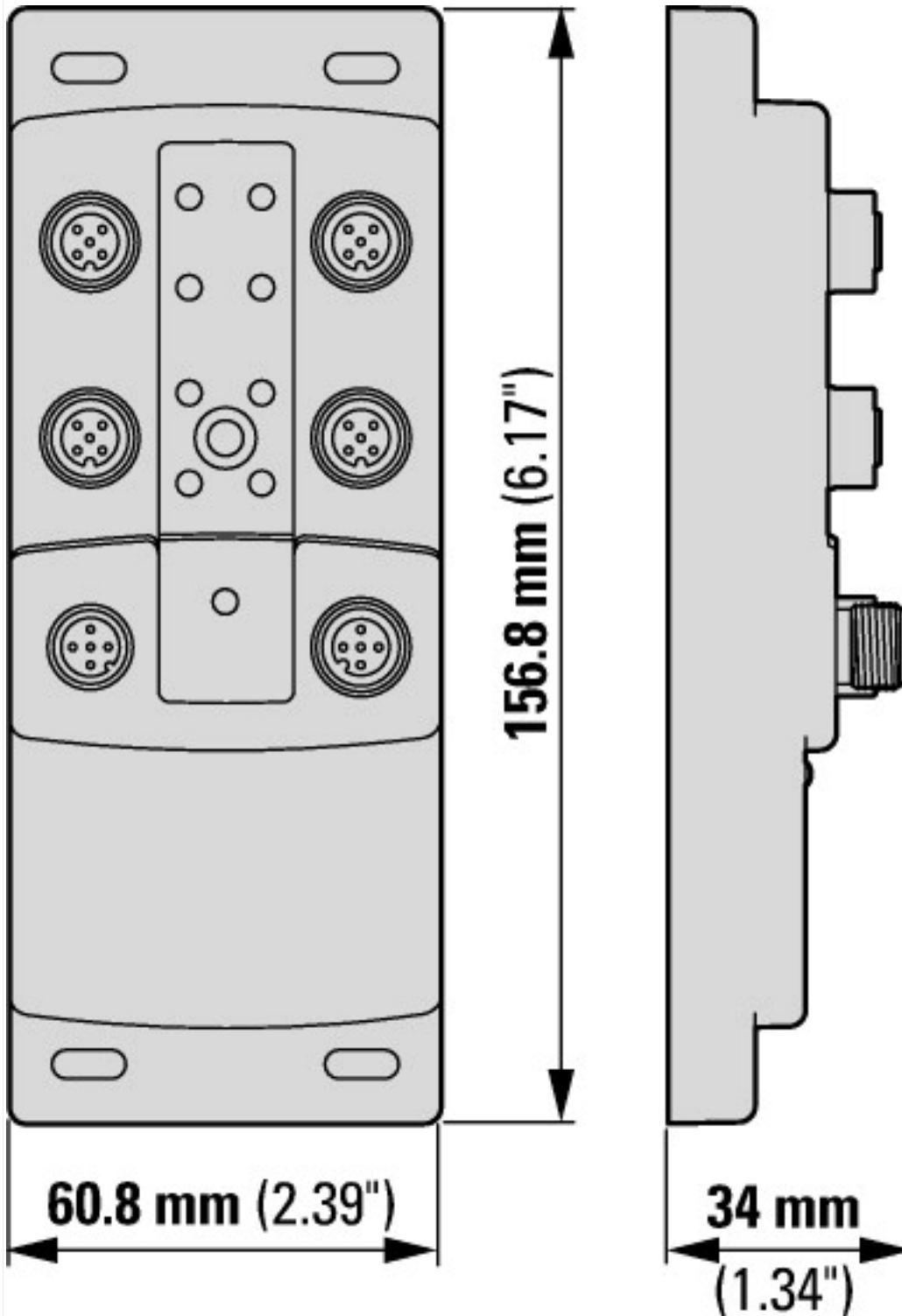
North America Certification

UL listed, CSA certified

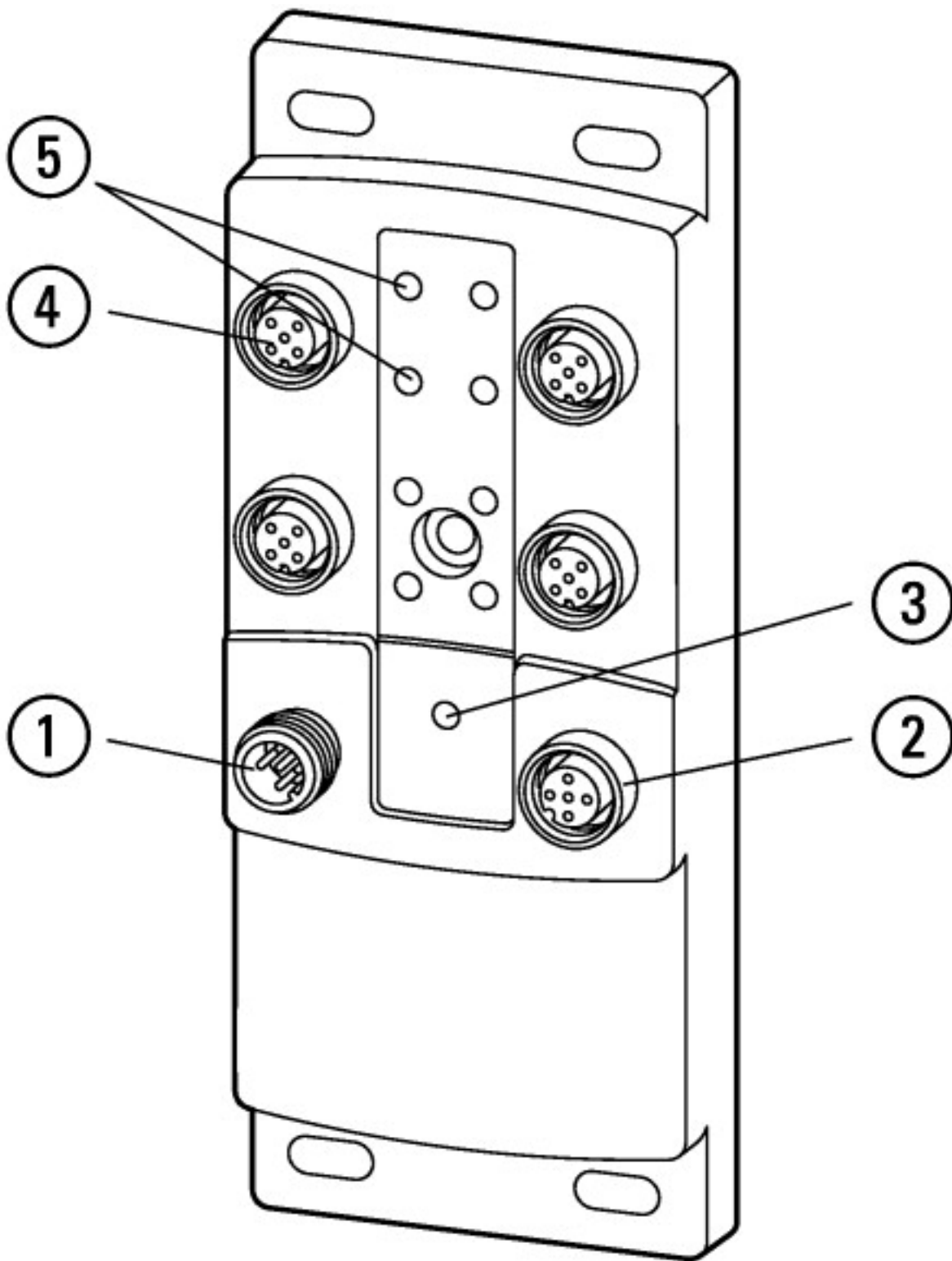
Specially designed for North America

No

Dimensions



SmartWire-DT I/O modules, EU6E-SWD-... block module



- ① SmartWire-DT connection SWD IN
- ② SmartWire-DT connection SWD OUT
- ③ SmartWire-DT diagnostics LED
- ④ I/O connection X1...X4
- ⑤ I/O status indicators

Assets (links)

Declaration of CE Conformity

00002781

Instruction Leaflets

IL120006ZU2018_02

Manuals

MN05006002Z_DE (German)

MN05006002Z_EN (English)

MN120006_DE (German)

Additional product information (links)

Instruction leaflet SWD I/O modules IP67 EU6E-SWD-..., EU8E-SWD-... IL120006ZU	
Instruction leaflet SWD I/O modules IP67 EU6E-SWD-..., EU8E-SWD-... IL120006ZU	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL120006ZU2018_02.pdf
Manual SmartWire-DT, SWD module IP6x MN120006	
Handbuch SmartWire-DT, SWD-Modul IP6x MN120006 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN120006_DE.pdf
Manual SmartWire-DT, SWD module IP6x MN120006 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN120006_EN.pdf
SmartWire-DT manual, The System MN05006002Z	
Handbuch SmartWire-DT, Das System MN05006002Z - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf
SmartWire-DT manual, The System MN05006002Z - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf
Manuale SmartWire-DT, il sistema MN05006002Z - italiano	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf
SmartWire-DT product range catalog	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=Titel
Technical data	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=62
f1=1457&f2=1181&f3=1530;Download Wizard SWD-ASSIST	http://applications.eaton.eu/sdlc?LX=11&amp
Product overview WEB)	http://www.eaton.eu/swd