

Gateway Profibus DP

Part no. EU5C-SWD-DP

Article no. 116308

Delivery programme

Product range			SmartWire-DT Gateways
Function			For connection to PROFIBUS-DP field bus
Baud Rates			up to 12 MBit/s
Number of SmartWire-DT slaves			58

Approvals

UL File No.	E29184
UL CCN	NKCR
CSA File No.	2324643
CSA Class No.	3211-07
NA Certification	UL listed, CSA certified
Specially designed for NA	No

General

Standards			IEC/EN 61131-2 EN 50178
Dimensions (W x H x D)		mm	35 x 90 x 127
Weight		kg	0.16
Mounting			Top-hat rail IEC/EN 60715, 35 mm
Mounting position			As required

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)			
Supply cables		kV	2
CAN/DP bus cable		kV	1
SmartWire-DT cables		kV	1
Surge (IEC/EN 61131-2:2008, Level 1)			
Supply cables/CAN/DP bus cable			Supply cables 0.5 kV, CAN/DP bus cable 1 kV
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10

Climatic environmental conditions

Operating ambient temperature (IEC 60068-2)		°C	- 25 - + 55
Condensation			Take appropriate measures to prevent condensation
Storage		°C	- 40 - 70

relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95

Supply voltage U_{Aux}

Rated operational voltage		V	24 V DC (-15/+20%)
Residual ripple on the input voltage		%	≦ 5
Protection against polarity reversal			Yes
Max. current	I_{max}	A	3
Short-circuit rating			no, external fuse FAZ Z3
Power loss		W	Normally 1
Potential isolation			No
Rated operating voltage of 24-V-DC slaves		V	typ. U_{Aux} - 0.2

Supply voltage U_{Pow}

Supply voltage		V	24 DC -15 % + 20 %
Input voltage ripple		%	≦ 5
Siemens MPI, (optional)			yes
Rated current	I	A	0.7
Overload proof			yes
Inrush current and duration		A	12.5 A/6 ms
Heat dissipation at 24 V DC		W	3.8
Potential isolation between U_{Pow} and 15 V SmartWire-DT supply voltage			No
Bridging voltage dips		ms	10
Repetition rate		s	1
Status indication		LED	yes

SmartWire-DT supply voltage

Rated operating voltage	U_e	V	14,5 ± 3 %
max. current	I_{max}	A	0.7
Short-circuit rating			Yes

Connection supply voltages

Connection type			Push in terminals
Solid		mm^2	0.2 - 1.5
Flexible with ferrule		mm^2	0.25 - 1.5
UL/CSA solid or stranded		AWG	24 - 16

SmartWire-DT network

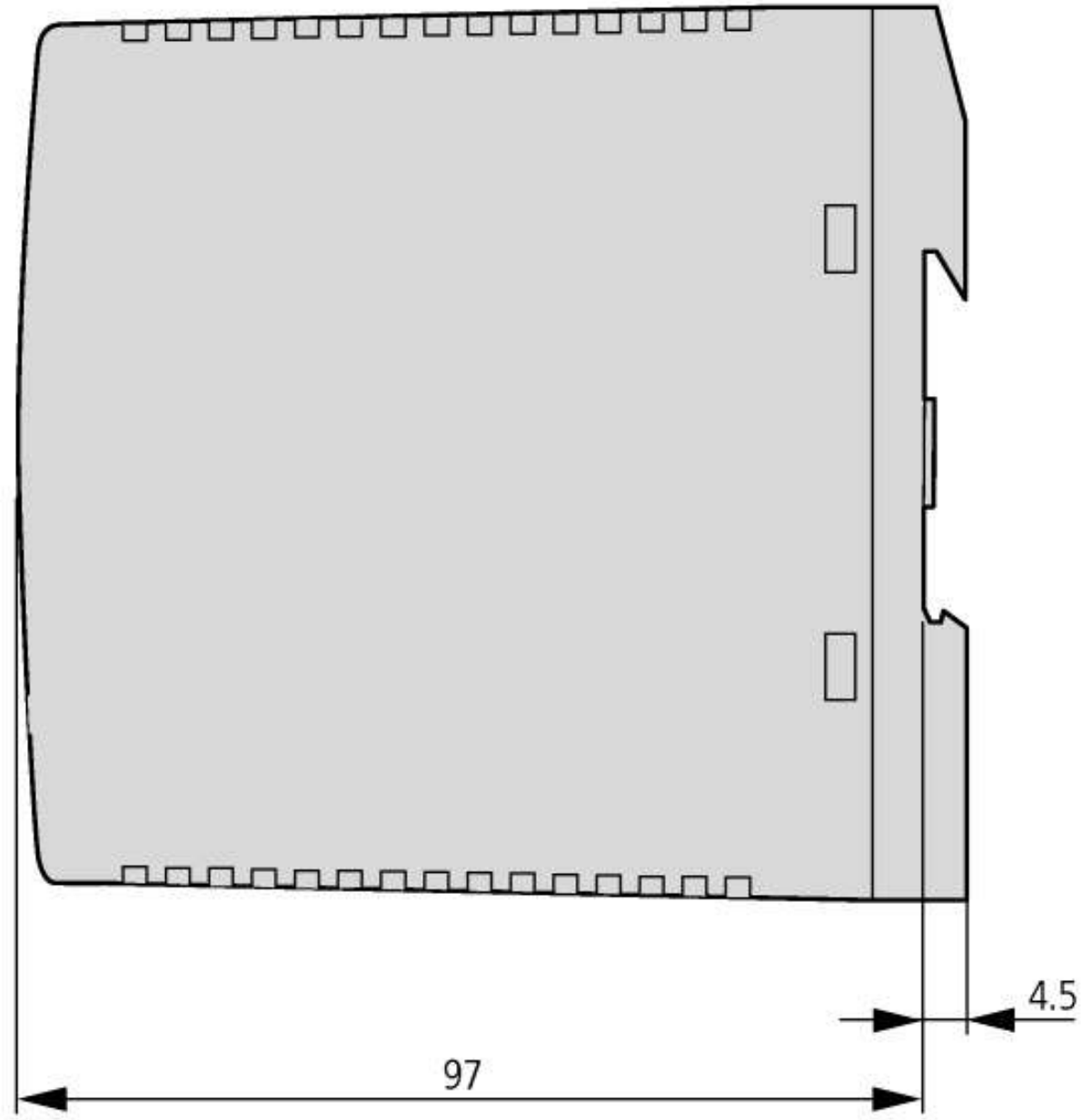
Station type			SmartWire-DT master
Number of SmartWire-DT slaves			58
Baud Rates		kBd	125 250
Address allocation			automatic
Status indication		LED	SmartWire-DT master LED: green Configurations LED: red
Connections			Plug, 8-pole
Plug connectors			Blade terminal SWD4-8MF2

Fieldbus interface

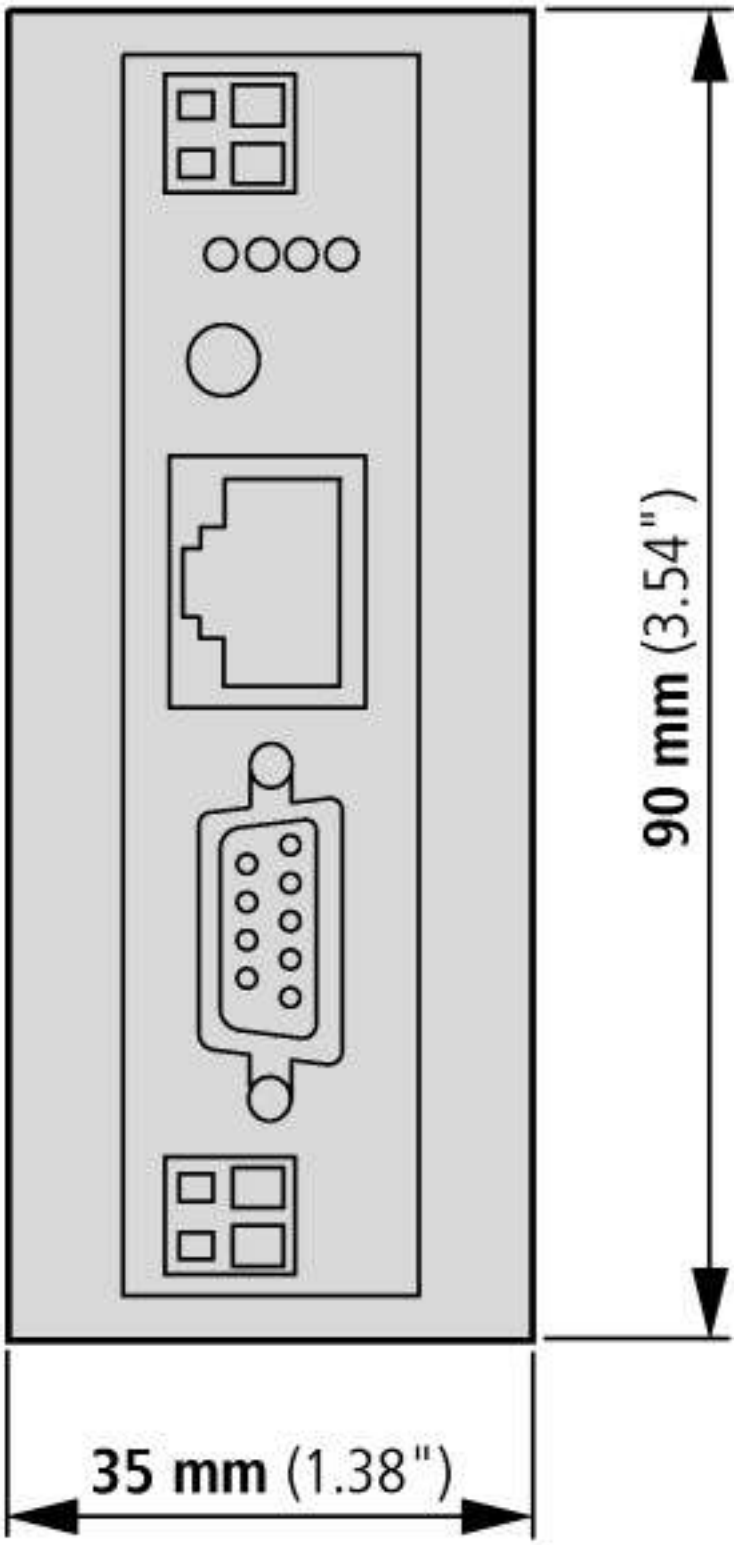
			PROFIBUS DP slave
Protocol			PROFIBUS-DP
Input data, max.		Byte	240
Output data, max.		Byte	240
Baud Rates			up to 12 MBit/s
Baud rates switching			automatic
Station address			2 … 125
Address allocation			DIP switch
Status display interface		LED	Two-coloured red/green
Terminating resistor			switchable via plug
Connection design for field bus			1 x D-SUB socket, 9-pin
Potential isolation			Yes

Notes		If contactors with a total current consumption > 3 A are connected, a power feeder module EU5C-SWD-PF1/2 has to be used. If SWD modules with a total current consumption > 0.7 A are connected, a power feeder module EU5C-SWD-PF2 has to be used.

Dimensions



SmartWire-DT Gateways
SmartWire-DT gateways, SmartWire-DT input/output modules, powerfeed modules



Additional product information (links)

IL05006001Z (AWA2723-2478) SmartWire-DT: Modules: PROFIBUS-DP, CANopen, Powerfeed, Modbus	
IL05006001Z (AWA2723-2478) SmartWire-DT: Modules: PROFIBUS-DP, CANopen, Powerfeed, Modbus	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05006001Z2011_07.pdf
MN05013002Z (AWB2723-1612), SWD-Gateways	
MN05013002Z (AWB2723-1612), SWD-Gateways - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_DE.pdf
MN05013002Z (AWB2723-1612), SWD-Gateways - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_EN.pdf
MN05013002Z (AWB2723-1612), SWD-Gateways - italiano	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_IT.pdf

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