



**Cable adapter, SmartWire-DT, flat to round cable**

**Part no.** SWD4-8FRF-10  
**Catalog No.** 121377

**EL-Nummer (Norway)** 4520014

**Delivery program**

Product range		SmartWire-DT accessories
Basic function		Cable adapters
Function		SWD cable adapters
Description		SmartWire-DT cable adapter for connecting a ribbon cable (plug) to a round cable (terminal)
Connection to SmartWire-DT		yes

**Technical data**

**General**

Standards		IEC/EN 61131-2 EN 50178
Dimensions (W x H x D)	mm	35 x 90 x 35
Weight	kg	0.042
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Mounting position		As required
Note on heat dissipation		not relevant

**Ambient conditions, mechanical**

Protection type (IEC/EN 60529, EN50178, VBG 4)		IP20
Vibrations (IEC/EN 61131-2:2008)		
Constant amplitude 3,5 mm	Hz	
constant amplitude 0.15 mm max.	Hz	8.4
constant amplitude 0.15 mm minim.	Hz	5
Constant acceleration 1 g	Hz	
constant acceleration 1 g max.	Hz	150
constant acceleration 1 g min.	Hz	8.4
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms	Impacts	9

**Electromagnetic compatibility (EMC)**

Electrostatic discharge (IEC/EN 61131-2:2008)		
Air discharge (Level 3)	kV	8
Contact discharge (Level 2)	kV	4

**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		Take appropriate measures to prevent condensation
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	0 - 95

**Connection options**

Connection 1		Plug, 8-pole
Number of insertion cycles		≥ 200
Connection 2		Push in terminals

## 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
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
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.

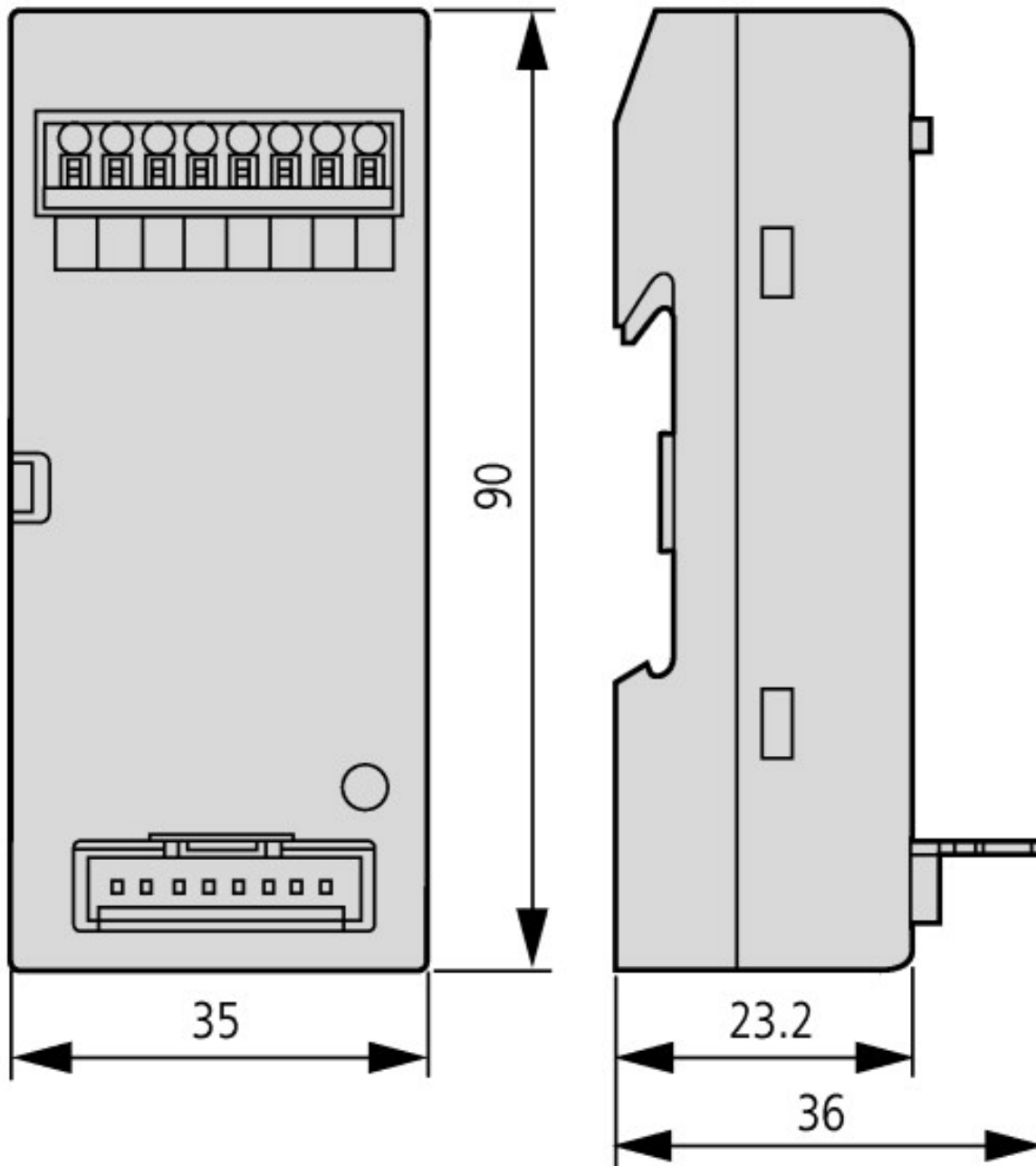
## Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / Accessories/spare parts for controls (EC002584)			
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Panel (HMI, accessories) (ecl@ss10.0.1-27-33-02-92 [AFX005003])			
Type of electrical accessory/spare part			Plug
Type of mechanical accessory/spare part			Other
Accessory			Yes
Spare part			No

## 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



Component adapter flat cable (plug) on round cable (terminal)

## Additional product information (links)

SmartWire-DT product range catalog	<a href="http://ecat.moeller.net/flip-cat/?edition=SWKAT&amp;startpage=Titel">http://ecat.moeller.net/flip-cat/?edition=SWKAT&amp;startpage=Titel</a>
f1=1457&f2=1181&f3=1530;Download Wizard SWD-ASSIST	<a href="http://applications.eaton.eu/sdlc?LX=11&amp;amp">http://applications.eaton.eu/sdlc?LX=11&amp;amp</a>
Product overview WEB)	<a href="http://www.eaton.eu/swd">http://www.eaton.eu/swd</a>