DATASHEET - EASY806-DC-SWD



Control relay, 24 V DC, 4DI(2DI, 2DO), easyNet, SmartWire-DT

Part no. EASY806-DC-SWD Catalog No. 152902

Alternate Catalog EASY806-DC-SWD

No

EL-Nummer 4520981

(Norway)



Delivery program

Delivery program		
Product range		SmartWire-DT coordinators
Basic function		easy800 with SmartWire-DT
Description		Combines the functionality of an easy800 with direct connection to SmartWire-DT communication system Up to 99 SmartWire-DT modules with a total of up to 166 digital inputs/outputs and/ or up to 128 analog inputs/outputs can be connected via a SmartWire-DT line
Inputs		
Digital		4
Of which can be used as outputs		2
SmartWire-DT		83
Outputs		
Quantity of outputs		Transistor: 2
Outputs	Number	2
Transistor		2
SmartWire-DT		83
Additional features		
Real time clock		#
Expansions		SmartWire-DT Networkable (easyNet)
Supply voltage		24 V DC
Software		EASY-SOFT-PRO
Connection type		screw terminal

Notes

Depending on the hardware, such as integrated analog input/output not supported

Count functions: 2 x incremental value counter up/down (per 2 inputs); 4 x high-speed counter single-channel (per 1 input);

4 x frequency counters (per 1 input)

2 x pulse-width modulated outputs (2 counter inputs omitted)

Technical data General

donorui			
Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
Approvals			CSA UL EAC
Dimensions (W x H x D)		mm	35 x 110 x 125.5 (2 PE)
Weight		kg	0.16
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Terminal capacities			
Solid		mm^2	0.2/1.5 (AWG 24 - 16)
Flexible with ferrule		mm^2	0.2/1.5 (AWG 24 - 16)
Climatic environmental conditions			
Operating ambient temperature		°C	In accordance with IEC 60068-2-1, -25 - +55
Condensation			Take appropriate measures to prevent condensation
Storage	9	°C	In accordance with IEC 60068-2-1, -2, -14 -40 - +70

relative humidity		%	in accordance with IEC 60068-2-30, IEC 60068-2-78 5 - 95
Air pressure (operation)		hPa	795 - 1080
Ambient conditions, mechanical		III a	733 - 1000
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations		Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57
			constant acceleration 2 g: 57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			111/2
Electrostatic discharge (ESD)			
applied standard			nach IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	0.8 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 55011 Class B
Burst power pulses (Surge)		kV	according to IEC/EN 61000-4-4 Supply cables: 2 Signal cables: 2 easyNet: 2 SWD lines: 2 according to IEC/EN 61000-4-5
power pulses (Surge)			1 kV (supply cables, symmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
Clearance in air and creepage distances			EN 50178, UL 508, CSA C22.2, No. 142
Insulation resistance			EN 50178
Back-up of real-time clock Back-up of real-time clock			
			① Backup time (hours) with fully charged double layer capacitor ② Service life (years)
Accuracy of the real-time clock		s/day	typ. \pm 2 (± 0.2 h/Year) depending on ambient air temperature fluctuations of up to \pm 5 s/day (± 0.5 h/year) are possible
Repetition accuracy of timing relays			
Accuracy of timing relays (of values)		%	± 0.02
Resolution			
Range "S"		ms	5
Range "M:S"		s	1
Range "H:M"		min	1
Retentive memory			
Retentive memory Write cycles of the retentive memory			10 ¹⁴ (read/write cycles)
Write cycles of the retentive memory			10 ¹⁴ (read/write cycles)
Write cycles of the retentive memory	U _e	V	10 ¹⁴ (read/write cycles) 24 DC (-15/+20%)
Write cycles of the retentive memory Power supply	U _e	V	
Write cycles of the retentive memory Power supply Rated operational voltage		V %	24 DC (-15/+20%)
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range			24 DC (-15/+20%) 20.4 - 28.8 V DC
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal			24 DC (-15/+20%) 20.4 - 28.8 V DC ≤ 5 yes
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal Input current		%	24 DC (-15/+20%) 20.4 - 28.8 V DC ≤ 5 yes normally 900 mA at U _e
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal Input current Inrush current and length			24 DC (-15/+20%) 20.4 - 28.8 V DC ≤ 5 yes
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal Input current		% A	24 DC (-15/+20%) $20.4 - 28.8 \text{ V DC}$ ≤ 5 yes $\text{normally 900 mA at U}_{\text{e}}$ 12.5 for 6 ms
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal Input current Inrush current and length		% A	24 DC (-15/+20%) 20.4 - 28.8 V DC \leq 5 yes normally 900 mA at U _e 12.5 for 6 ms \leq In accordance with IEC 61131-2
Write cycles of the retentive memory Power supply Rated operational voltage Permissible range Residual ripple Protection against polarity reversal Input current Inrush current and length Voltage dips		% A ms	24 DC (-15/+20%) 20.4 - 28.8 V DC ≤ 5 yes normally 900 mA at U _e 12.5 for 6 ms ≤ In accordance with IEC 61131-2 ≤ 10

Digital inputs 24 V DC

Digital inputs 24 V DC			
Number			4
Status Display			LED
Potential isolation			from power supply: no between digital inputs: no from the outputs: no to COM interface: yes to easyNet: yes to AUX: yes to SmartWire-DT: no
Rated operational voltage	U _e	V DC	24
Input voltage		V DC	Signal 0: ≦ 5 (I1 - I4) Signal 1: ≧ 15 (I1 - I4)
Input current at signal 1		mA	11 - 14: 3.9
Deceleration time		ms	20 (0 -> 1/1 -> 0, Debounce ON) normally 0.025 (0 -> 1/1 -> 0, Debounce OFF)
Cable length		m	100 (unshielded)
Frequency counter			
Number			4 (11, 12, 13, 14)
Counter frequency		kHz	≦ 5
Pulse shape			Square
Pulse pause ratio			1:1
Cable length		m	≤ 20 (screened)
Incremental counter			
Number of counter inputs			2 (11 + 12, 13 + 14)
Counter frequency		kHz	≤5
Pulse shape		KIIZ	Square
Signal offset			90°
Pulse pause ratio			1:1
Rapid counter inputs			
Number			4 (11, 12, 13, 14)
Cable length		m	≦ 20 (screened)
Counter frequency		kHz	≦ 5
Pulse shape			Square
Pulse pause ratio			1:1
Transistor outputs			
Number			2
Potential isolation			from power supply: no From the inputs: yes: no to COM interface: yes to easyNet: yes to AUX: yes
Rated operational current at signal "1" DC per channel	l _e	Α	max. 0.1
Lamp load without R _v per channel		W	1.2
Residual current on 0 signal per channel		mA	< 0.1
Max. output voltage		V	2.5 (signal 0 at external load < 10 M Ω) U = U $_{e}$ - 2 V (signal 1 at I $_{e}$ = 0.1 A)
Short-circuit protection			Yes, electronic (Q1 - Q2)
Short-circuit tripping current for $R_a \leq 10 \ m\Omega$		Α	0.15 - 0.35 per output depending on number of active channels and their load
Peak short-circuit current		Α	10 A/80 ms (on short-circuit) 10 A/20 ms (on attempted restart of device after 10s)
Thermal cutout			no
Output status indication			LED
Supply voltage U _{Aux}			
Rated operational voltage	U_{Aux}	V	24 V DC (-15/+20%)
Permissible range			20.4 - 28.8 V DC
Output voltage SWD-OUT			U _e - 0.3 V
Protection against polarity reversal			yes
Residual ripple on the input voltage		%	≦ 5
Max. current	I _{max}	Α	3 (IEC)
			2 (UL)

Short aircuit rating			70
Short-circuit rating			no
Heat dissipation			type. 1 W at 24 V DC
Potential isolation			from power supply POW: yes From the inputs: yes from the outputs: yes to COM interface: yes to easyNet: yes to SmartWire-DT: yes
Power loss	P	W	1
SmartWire-DT supply voltage			
Rated operating voltage	U _e	V	14.5 ± 3 %
max. current	I _{max}	Α	0.7
Short-circuit rating			Yes
Potential isolation			from power supply POW: no From the inputs: yes: no from the outputs: no to COM interface: yes to easyNet: yes to AUX: yes
SmartWire-DT network			
Station type			Master
Number of SmartWire-DT slaves			Max. 99
Baud Rates		kBd	125/250
Address allocation			Automatically (via Configuration button)
Status indication			SWD-LED: orange/green/red Config. LED: green/red
Connections			Plug, 8-pole
Plug connector			Blade terminal SWD4-8MF2
Bus termination			Integrated in the device SmartWire-DT line end with SWD4-RC8-10
Network easyNet			
Module		Count	Max. 8
Data transfer rate/distance			1000 KBit/s, 6 m 500 KBit/s, 25 m 250 Kbit/s, 40 m 125 Kbit/s, 300 m 50 KBit/s, 300 m 20 KBit/s, 700 m 10 KBit/s, 1000 m Lengths from 40 m can be obtained only with cables with reinforced cross-section and terminal adapter.
Potential isolation			from power supply POW: yes From the inputs: yes from the outputs: yes to COM interface: yes to SmartWire-DT: yes to AUX: yes
Bus termination (first and last station)			yes
Terminal types			RJ45, 8-polig
Terminal capacity			up to 1000 m, < 16 mΩ/m: 1.5 (AWG: 16) up to 600 m, < 26 mΩ/m: 0.75 - 0.8 (AWG: 18) up to 600 m, < 26 mΩ/m: 0.5 - 0.6 (AWG: 20, 19) up to 400 m, < 40 mΩ/m: 0.34 - 0.5 (AWG: 22, 21, 20) up to 250 m, < 60 mΩ/m: 0.25 - 0.34 (AWG: 23, 22) up to 175 m, < 70 mΩ/m: 0.13 (AWG: 26) up to 40 m, < 140 mΩ/m: 1.5 (AWG: 16)

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	6
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
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

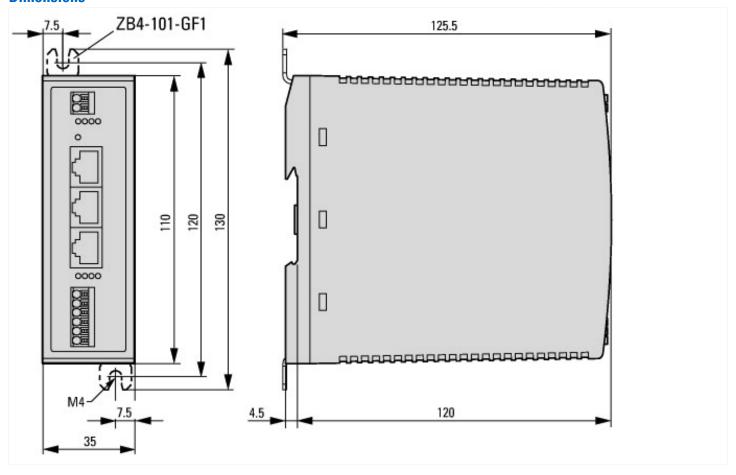
Tooliii data E i i i i i i i i i i i i i i i i i i		
PLC's (EG000024) / Logic module (EC001417)		
Electric engineering, automation, process control engineering / Control / Programmable	e logic control (SP	S) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type of supply voltage		DC
Switching current	А	0.1
Number of analogue inputs		0
Number of analogue outputs		0
Number of digital inputs		4
Number of digital outputs		2
With relay output		No
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 USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		3
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

Sipporting protect for PROFINET CBA No Supporting protect for SERCOS No Supporting protect for FERCOS No Supporting protect for FERCOS Services No Supporting protect for INTEREUS-safety No Supporting protect for INTEREUS-safety No Supporting protect for FERCOS FERCOS No Supporting protect for FERCOS FERCOS FERCOS No Supporting protect for INTEREUS-safety No Supporting protect for FERCOS FE			
Supporting protocol for Foundation Fieldhus No Supporting protocol for Foundation Fieldhus No Supporting protocol for Foundation Fieldhus No Supporting protocol for Ashinstriace Safety at Work No Supporting protocol for Device Next Safety No Supporting protocol for FORDEratie No Supporting protocol for SafetyBUS p No Supporting protocol for Celevice National Safety Yes Supporting protocol for Celevice National Safety No Supporting protocol for SafetyBUS p No Supporting protocol for Celevice National Safety No Supporting protocol for Celevice National Safety No Supporting protocol for Celevice National Safety No Redo standard Bluedoth No Redo standard Safety No Reparation Safety <td>Supporting protocol for PROFINET IO</td> <td></td> <td>No</td>	Supporting protocol for PROFINET IO		No
Supporting protocol for Ethan-Well? No Supporting protocol for Ethan-Well? No Supporting protocol for Ethan-Well? No Supporting protocol for Deveckets Safety No Supporting protocol for PROFISIAR No Supporting protocol for PROFISIAR No Supporting protocol for SAGN-PAUS PA No Supporting protocol for SAGN-PAUS PA No Redict sandard Sluteroth No Redict sandard SULVAN 822.1 No Redict sandard WLAN 822.1 No Redict sandard WLAN 822.1 No Redict sandard SMA No Region San Server SMA Yes Region San Server SMA Yes	Supporting protocol for PROFINET CBA		No
Supporting protocol for Eshenket/P No Supporting protocol for Ashinafzee Safevy at Work No Supporting protocol for INTERBUS-Safevy No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsate No Supporting protocol for PROFIsate No Supporting protocol for SafetyBUS p No Redio standard Blustooth No Redio standard Blustooth No Redio standard SMA No Redio standard WIAN 80211 No Redio standard GPMS No Redio standard WIAN 80214 No Redio standard SMA No Redio standard WIAN 80214 No Redio standard SMA No Redundancy No Region so of protoction (IP) Ye Residual sangery Ye	Supporting protocol for SERCOS		No
Supporting protect for As-Interface Safety stores No Supporting protect for Energy stores No Supporting protect for INTERBUS-Safety No Supporting protect for INTERBUS-Safety No Supporting protect for FROFISHER No Supporting protect for SafetyBUS p No Supporting protect for Cher bus systems No Radio standard Blustooth No Radio standard Blustooth No Radio standard GNA No Radio standard GNA No Radio standard GNA No Radio standard UMTS No In link master No Redundancy No With signly No Besic device Yes Expandable Yes Expandable Yes Expandable Yes Rall mounting possible Yes Rall mounting direct mounting Yes Subable for safety function No Subable for safety function No Subable for safety function No	Supporting protocol for Foundation Fieldbus		No
Supporting protect for INTERBUS-Siefty Mo Supporting protect for INTERBUS-Siefty Mo Supporting protect for SPOFISERS Mo Supporting protect for SafetyBUS PS Mo Supporting protect for SafetyBUS PS Mo Radio standard Blustooth Mo Radio standard Blustooth Mo Radio standard WLAN 802.11 Mo Radio standard SWAN Mo Radio standard SWAN Mo Radio standard SWAN Mo Radio standard SWAN Mo Regular MLAN MARIA Mo Regular MLAN MARIA	Supporting protocol for EtherNet/IP		No
Supporting protocol for NTERBUS-Safaty 6 6 6 7 8 8 9	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for SRIPISHS No Supporting protocol for StretyBUS p Yes Supporting protocol for Other bus systems Per 3 Radio standard Bluetoth Per 3 Radio standard WLAN 802.11 Per 3 Radio standard GMRS Per 3 Radio standard GMRS Per 3 Radio standard GMTS Per 3 Radio standard GMTS Per 3 Redundancy Per 3 Redundancy Per 3 Redundancy Per 3 Units master Per 3 Redundancy Per 3 Redundancy Per 3 Units measure Per 3 Residencian (IP) Per 3 Basic device Per 3 Expandable Per 3 Residencian (IP) Per 3 Residencia	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUSp Image: Imag	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems 4 9 9 10	Supporting protocol for PROFIsafe		No
Radio standard Bluetooth	Supporting protocol for SafetyBUS p		No
Radio standard WLAN 802.11 No Radio standard GPRS No Radio standard GSM No Radio standard UMTS No O link master No Redundancy No With display No Degree of protection (IP) Yes Basic device Yes Expandable Yes Expandable Yes With timer Yes Rail mounting possible Yes Wall mounting direct mounting Yes Front build in possible Yes Suitable for safety functions Yes Category according to EN 954-1 No Suitable for safety functions Yes Category according to EN 954-1 No SIL according to IEC 9508 No Performance level acc. EN ISO 13849-1 Yes Appendant operation agent (Ex ia) Yes Appendant operation agent (Ex ia) Yes Appendant operation agent (Ex ia) Yes Explosion safety category for gas Yes Explosion saf	Supporting protocol for other bus systems		Yes
Radio standard GPRS No Radio standard GSM No Redio standard UMTS No 10 link master No Redundancy No With display No Degree of protection (IP) IP20 Basic device IP20 Expandable Yes Expandable Yes Expandable Yes With timer Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Rack-assembly possible Yes Rack-assembly possible No Suitable for safety functions Yes Category according to EN 954-1 No Sil according to EN 954-1 None Syllactory for grown according to EN 954-1 None Appendant operation agent (Ex ie) None Explosion safety category for dust Yes Explosion safety category for dust Yes With None Basic for grown agent (Ex ie) None Explosion safety category for dust <t< td=""><td>Radio standard Bluetooth</td><td></td><td>No</td></t<>	Radio standard Bluetooth		No
Radio standard GSM No Radio standard UMTS No 10 link master No Redundancy No With display Po Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expandable Yes Expandable Yes Rail mounting possible Yes Rail mounting/direct mounting Yes Yes No Rack-assembly possible No Rack-assembly possible No Suitable for safety functions No Stateble for safety functions No Appendant operation agent (EX is) No Appendant operation agent (EX is) No Appendant operation agent (EX is) No Explosions aftery category for dust <	Radio standard WLAN 802.11		No
Radio standard UMTS No 10 link master No Redundancy No With display No Degree of protection (IP) IP20 Basic device Yes Expandable No Expandable No With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Front build in possible Yes Suitable for safety functions Yes Category according to EN 954-1 No SIL according to EX 954-1 None SIL according to EX 954-1 None SIL acpordance level acc. EN ISO 1389-1 None Appendant operation agent (Ex ib) None Explosion safety category for gas None Explosion safety category for dust None Width None Explosion safety category for dust None Width None Explosion safety category for dust None Width None Explosion safety category for dust	Radio standard GPRS		No
10 link master No Redundancy No With display No Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expandable Yes Expansion device Yes With timer Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Front build in possible Yes Rack-assembly possible No Suitable for safety functions Yes Suitable for safety functions Yes Still according to EK 954-1 No Sill according to EK 954-1 None Still according to EK 954-1 None Sill according to EK 954-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ib) No Explosion safety category for dust No Width No Explosion safety category for dust No Width No <td>Radio standard GSM</td> <td></td> <td>No</td>	Radio standard GSM		No
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Degree of protection (IP) 120 Basic device Yes Expandable 120 Expansion device 120 With timer 120 Rail mounting possible 120 Wall mounting/direct mounting 120 Front build in possible 120 Rack-assembly possible 120 Suitable for safety functions 120 Category according to EN 954-1 120 SIL according to EC 61508 120 Performance level acc. EN ISO 13849-1 120 Appendant operation agent (Ex ia) 120 Appendant operation agent (Ex ia) 120 Appendant operation agent (Ex ib) 120 Explosion safety category for dust 120 Width 120 Width 120 Width 120 Height 120	Redundancy		No
Basic device Yes Expandable Yes Expansion device No With timer Yes Rail mounting possible Yes 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 mo Width	With display		No
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Expansion device With timer Rail mounting possible Ves Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No Yes Yes No No No No No No No No No N	Basic device		Yes
With timer Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height With timer Yes Yes No No No No No No No No No N	Expandable		Yes
Rail mounting possible Wall mounting/direct mounting Front build in possible Front build in possible Rack-assembly possible No Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Wall mounting possible Yes Yes Yes No	Expansion device		No
Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Midth Mi	With timer		Yes
Front build in possible Rack-assembly possible No Suitable for safety functions No Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Width Mmm Mo	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions No Category according to EN 954-1 None SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas None Explosion safety category for dust Width Height No No None None None None None None Non	Wall mounting/direct mounting		Yes
Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width Midth	Front build in possible		No
Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mone Width mm 35 Height None	Rack-assembly possible		No
SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mone Width Mone None None None None Width Mone 10 10 10 10 10 10 10 10 10 1	Suitable for safety functions		No
Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 35 Height None None None None 110	Category according to EN 954-1		None
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width mm 35 Height No No None None None 110	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 35 Height No None None 110	Performance level acc. EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Width mm 35 Height None None 110	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width mm 35 Height 110	Appendant operation agent (Ex ib)		No
Width mm 35 Height 110	Explosion safety category for gas		None
Height mm 110	Explosion safety category for dust		None
	Width	mm	35
Depth mm 125.5	Height	mm	110
	Depth	mm	125.5

Approvals

Product Standards	IEC/EN see Technical Data; UL508; CSA C22.2 No. 142-M1987
UL File No.	E135462
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	2252-01 + 2258-02
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product information (links)

SmartWire-DT product range catalog	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=12
Technical data	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=54
BR05013001Z-EN, easy Family	http://www.moeller.net/binary/w_brochures/br05013001Z-en.pdf