



## Illuminated pushbutton function element, SmartWire-DT, 2W, LED, red, base fixing



Part no. **M22-SWD-K22LEDC-R**  
Article no. **116012**  
Catalog No. **M22-SWD-K22LEDC-RQ**

### Delivery program

Basic function		Function elements						
Function		for combination with RMQ-Titan operating elements M22-...						
Fixing		Base fixing						
Contacts		2 changeover contact						
Contact sequence								
Contact travel diagram stroke in connection with front element		<p>2.8</p> <p>0 1.2 5.5</p>						
Configuration		<table border="1"><tr><td>2</td><td>3</td><td>1</td></tr><tr><td colspan="3" style="background-color: #ccc;"></td></tr></table>	2	3	1			
2	3	1						
Colour		red						
Connection to SmartWire-DT		yes						

### Technical data

General	
Standards	IEC/EN 61131-2 EN 50178
Dimensions (W x H x D)	mm 17 x 45 x 42
Weight	g 14
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)

Oversupply category		Not applicable
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 cable	kV	2
SmartWire-DT cable	kV	1
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V
		10

### Climatic environmental conditions

Relative humidity		
Condensation		Take appropriate measures to prevent condensation
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	5 - 95

### SmartWire-DT network

Station type		SmartWire-DT slave
Address allocation		automatic
Status indication	LED	Green
Connections		Plug, 8-pole
Plug connectors		M22-SWD-1...LP

### Fieldbus interface

Baud rate setting		automatic
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## Design verification as per IEC/EN 61439

Technical data for design verification		
Rated operational current for specified heat dissipation	I <sub>n</sub>	A 0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W 0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W 0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W 0.3
Heat dissipation capacity	P <sub>diss</sub>	W 0
Operating ambient temperature min.		°C -30
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		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

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss8.1-27-37-13-02 [AKN342010])		
Number of contacts as change-over contact		0
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		2
Rated operation current Ie at AC-15, 230 V	A	0
Type of electric connection		Flat plug-in connection
Model		Top mounting
Mounting method		Front fastening

## 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

## Additional product information (links)

<b>IL04716004Z (AWA1160-2511) SmartWire-DT: RMQ-Titan</b>	IL04716004Z (AWA1160-2511) SmartWire-DT: <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716004Z2015_02.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716004Z2015_02.pdf</a>
<b>MN05006001Z Handbuch SmartWire-DT, SWD-Teilnehmer IP20</b>	
MN05006001Z (AWB2723-1613) SmartWire-DT, Teilnehmer - Deutsch	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf</a>
MN05006001Z (AWB2723-1613) SmartWire-DT, Modules - English	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf</a>
MN05006001Z (AWB2723-1613) SmartWire-DT, modulo - italiano	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf</a>
<b>MN05006002Z (AWB2723-1617) SmartWire-DT, The system</b>	
MN05006002Z (AWB2723-1617) SmartWire-DT, Das System - Deutsch	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf</a>
MN05006002Z (AWB2723-1617) SmartWire-DT, The system - English	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf</a>
MN05006002Z (AWB2723-1617) SmartWire-DT, il sistema - italiano	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf</a>