

Function element, for combination with RMQ-Titan operating elements  
M22-..., 1 changeover contact, Front fixing, red

Part no.	M22-SWD-K11LED-R
Catalog No.	115975
Alternate Catalog No.	M22-SWD-K11LED-RQ
EL-Nummer (Norway)	4355010



## Delivery program

Basic function accessories	Function elements
Function	for combination with RMQ-Titan operating elements M22-...
Contacts	1 changeover contact
Fixing	Front fixing
Connection to SmartWire-DT	yes

## Technical data

## General

Standards		IEC/EN 61131-2 EN 50178
Approvals		
shipping classification		BV LRS
Dimensions (W x H x D)	mm	12 x 42 x 45
Weight	g	10
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
Free fall, packaged (IEC/EN 60068-2-32)	m	50
		0,3

## Electromagnetic compatibility (EMC)

Overvoltage 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

Ambient temperature		
Operating ambient temperature (IEC 60068-2)	°C	-30 - +70
Storage	°C	-40 - +80
Relative humidity		
Condensation		Take appropriate measures to prevent condensation

Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	9 - 95
<b>SmartWire-DT network</b>		
Station type		SmartWire-DT slave
Address allocation		automatic
Status indication		Green LED
Connections		Plug, 8-pole
Plug connector		SWD4-8SF2-5
<b>Fieldbus interface</b>		
Baud rate setting		automatic
<b>Functions</b>		
Switching state display	LED	Yes
Diagnostics		Yes
Fixing		Front fixing
<b>Design verification as per IEC/EN 61439</b>		
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 0.3
Heat dissipation capacity	$P_{diss}$	W 0
Operating ambient temperature min.		°C -30
Operating ambient temperature max.		°C 70
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 8.0

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@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact		1
Number of contacts as normally open contact		1
Number of contacts as normally closed contact		1
Number of fault-signal switches		0
Rated operation current $I_e$ at AC-15, 230 V	A	0
Type of electric connection		Flat plug-in connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		LED not exchangeable