

### Mushroom actuator, green I, maintained

Powering Business Worldwide\*

Part no. M22-DRP-G-X1
Article no. 216753
Catalog No. M22-DRP-G-X10

**Delivery programme** 

Basic function Single unit/Complete unit  Design  Colour  Mushroom Mushroom colour  Mushroom colour  Button plate  button plate  button plate  Design  Button plate  The plate  Design  Button plate  Design  Mushroom colour  Mushroom colour  Mushroom colour  Wishroom colour  Button plate  Degree of Protection Front ring  Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.54.1  Minimum force for positive opening  Mushroom Hushroom-headed pushbutton  Single unit  Mushroom  Paraminatined  Paramination	/ F - 3		
Single unit/Complete unit  Design Colour  Mushroom Mushroom colour  Mushro	Product range		RMQ-Titan (drilling dimensions 22.5 mm)
Design     Mushroom     Mushroom       Mushroom colour     Image: Colour col	Basic function		Mushroom-headed pushbutton
Colour  Mushroom Mushroom colour  Button plate button plate  Button plate  Button plate  Button plate  Colour  Mushroom colour  Button plate  Button plate  Button plate  Button plate  Button plate  Button plate  Front ring  Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, Minimum force for positive opening  Minimum force opening  Minimum force for positive opening  Minimum force for	Single unit/Complete unit		Single unit
Colour       Mushroom       Image: Colour Mushroom colour       Image: Colour Mushroom colour Mushroom colour       Image: Colour Mushroom colour Mushroom colour       Image: Colour Mushroom colour Mushroom colour Mushroom colour       Image: Colour Mushroom colour Mushroom colour Mushroom colour Mushroom colour       Image: Colour Mushroom colour colour mushroom colour mushroom colour c	Design		Mushroom
Mushrom colour Mushrom colour  Mushrom colour  Mushrom colour  Button plate  Front ring Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-51, K.5.4.1  Minimum force for positive opening  Minimum force			maintained
Mushroom colour  Button plate  Front ring  Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  Minimum force for positive opening  Minimum force for positive opening  N  O  G  G  G  G  G  G  G  G  G  G  G  G	Colour		
Button plate  button plate  Button plate  Button plate  Button plate  Front plate  Degree of Protection  Front ring  Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  N  Front dimensions	Mushroom		green
Button plate  Button plate  Button plate  Button plate  Button plate  Profit ring  Degree of Protection  Front ring  Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  Minimum force for positive opening  Front dimensions  Front dimensions  Final plate  Profit ring: ittanium  Front ring: ittanium  Profit ri	Mushroom colour		
Button plate  Button plate  Button plate  Button plate  Button plate  Button plate  Inscribed  Insc	Button plate		
Legree of Protection Pegree of Protection Pront ring Connection to SmartWire-DT Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1 Minimum force for positive opening Minimum	button plate		green
Degree of Protection Front ring Connection to SmartWire-DT Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1 Minimum force for positive opening Front dimensions Function  Mentalor travel Minimum force for positive opening Minimum force for po	Button plate		
Front ring Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  Front dimensions Front ring: titanium Front ring: titanium Yes, with SWD-RMQ connections  2 2x 22  maintained			inscribed
Connection to SmartWire-DT  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  Front dimensions  Function  Yes, with SWD-RMQ connections  O  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  O  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  O  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  O  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  N  actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Actuator travel and actuation force as per DIN EN 60947-5-1, Actuator travel and actuation force as per DIN EN 60947-5-1,	Degree of Protection		IP67, IP69K
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1  Minimum force for positive opening  Front dimensions  Function  Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1   Description  Occupang  22 x 22  maintained	Front ring		Front ring: titanium
K.5.4.1 Minimum force for positive opening N 0 Front dimensions Function N 0 22 x 22 maintained	Connection to SmartWire-DT		Yes, with SWD-RMQ connections
Front dimensions 22 x 22 Function maintained	Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1		
Function maintained	Minimum force for positive opening	N	0
	Front dimensions		22 x 22
Instructions Stay-put/spring-return function can be changed on device	Function		maintained
	Instructions		Stay-put/spring-return function can be changed on device

#### **Technical data**

Genera

General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	>1
Operating frequency	Operations/h		≦ <sub>1800</sub>
Actuating force		n	≦₅
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +70
Storage		°C	- 40 - + 80
Mounting position			As required
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27

	Desi	an verifica	ation as per	IEC/EN	61439
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Technical data for design verification

3			
Rated operational current for specified heat dissipation	In	Α	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
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
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			Please enquire
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			Not applicable.
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) / Front element for mushroom push-button (EC001038)

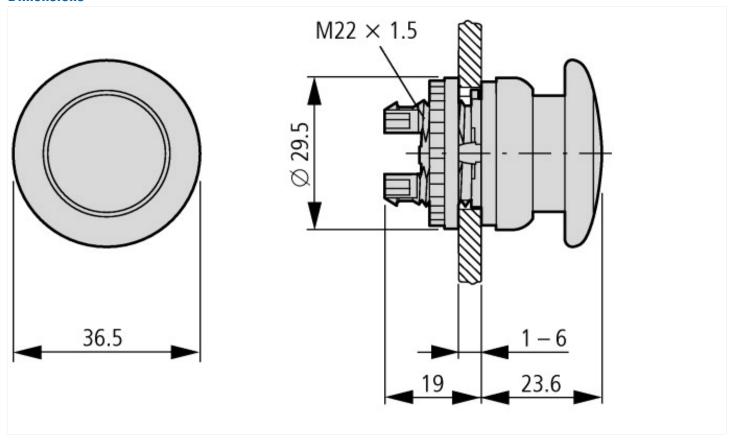
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for mushroom push-button actuators (ecl@ss8.1-27-37-12-12 [AKF030011])

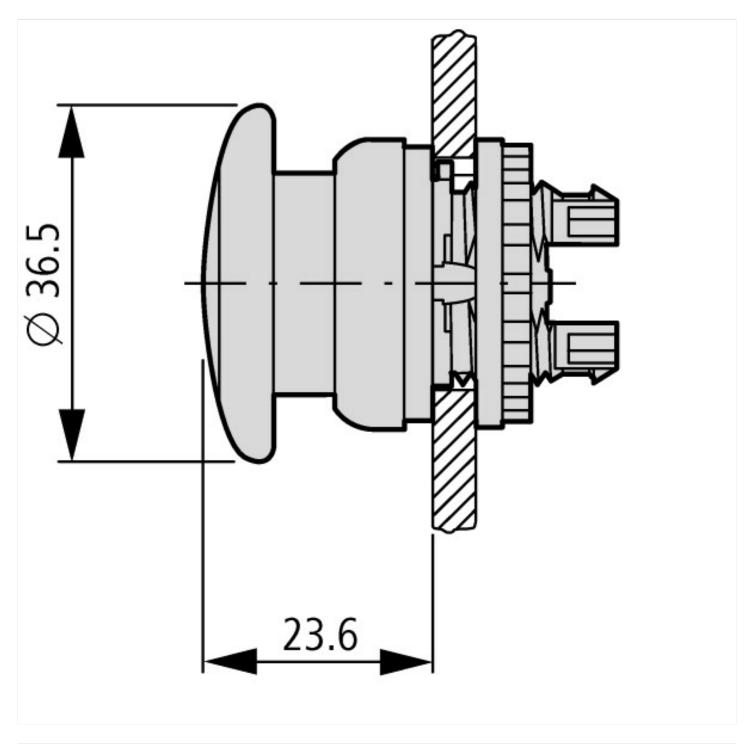
Construction type lens  Diameter cap  mm 36.5  Hole diameter  Width opening mm 22  Wigth pering mm 22  Height meter opening mm 6  Degree of protection (IP)  Type of button Flat  Suitable for illumination Switching function latching Spring-return  With front ring Material front ring  Material front ring  Colour front ring  Round  Round  Round  Round  Round  Round  Round  Round  Ana  36.5  Pla  1P67  Flat  Flat  No  Yes  No  Plastic  Chrome	(ecl@ss8.1-27-37-12-12 [AKF030011])		
Diameter cap Hole diameter  mm 22 Width opening mm 22 Height meter opening mm 6 Degree of protection (IP) IP67 Type of button Switching function latching Spring-return Width front ring Material front ring Colour front ring Colour front ring Seriage man 36.5  mm 22  IP67 IP67 IP67 IP67 IP67 IP67 IP67 IP6	Colour button		Green
Hole diameter  Width opening  mm  22  Height meter opening  mm  6  Degree of protection (IP)  Type of button  Suitable for illumination  Switching function latching  Spring-return  With front ring  Material front ring  Colour front ring  Mm  22  Material front ring  mm  22  Material front ring  mm  22  Material front ring  pm  6  Chrome	Construction type lens		Round
Width opening mm 6  Degree of protection (IP) IP67  Type of button Flat Suitable for illumination No Switching function latching Yes Spring-return No With front ring Yes Material front ring Plastic Colour front ring 22  Material front ring 24  Material front ring 25  Material front ring 26  Material front ring 27  Material front ring 27  Material front ring 28  Material front ring 29  Material front ring 20  Material front ring	Diameter cap	mm	36.5
Height meter opening mm 6 Degree of protection (IP) IP67 Type of button Flat Suitable for illumination No Switching function latching Yes Spring-return No With front ring Yes Material front ring Plastic Colour front ring Chrome	Hole diameter	mm	22
Degree of protection (IP)  Type of button  Suitable for illumination  Switching function latching  Spring-return  With front ring  Material front ring  Colour front ring  IP67  Flat  No  No  Yes  Plastic  Chrome	Width opening	mm	22
Type of button  Suitable for illumination  No  Switching function latching  Yes  Spring-return  No  With front ring  Material front ring  Colour front ring  Colour front ring  Flat  No  Yes  Plastic  Chrome	Height meter opening	mm	6
Suitable for illumination  Suitable for illumination  No  Switching function latching  Yes  Spring-return  No  With front ring  Yes  Material front ring  Plastic  Colour front ring  Chrome	Degree of protection (IP)		IP67
Switching function latching  Spring-return  No  With front ring  Material front ring  Colour front ring  Yes  Plastic  Chrome	Type of button		Flat
Spring-return  No With front ring  Yes  Material front ring  Colour front ring  Colour front ring  Colour front ring  No  Yes  Chrome	Suitable for illumination		No
With front ring Yes  Material front ring Plastic Colour front ring Chrome	Switching function latching		Yes
Material front ring Plastic Colour front ring Chrome	Spring-return		No
Colour front ring Chrome	With front ring		Yes
	Material front ring		Plastic
Suitable for emergency stop No	Colour front ring		Chrome
	Suitable for emergency stop		No

# Approvals

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

### **Dimensions**





# **Additional product information (links)**

IL04716002Z (AWA1160-1745) RMQ-Titan System

IL04716002Z (AWA1160-1745) RMQ-Titan System  $ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL04716002Z2015\_02.pdf$