DATASHEET - M22-DDL-WS-X1/X0

Double actuator pushbutton, RMQ-Titan, Actuators and indicator lights non-flush, momentary, White lens, white, black, inscribed, Bezel: titanium



Part no.	M22-DDL-WS-X1/X0
Catalog No.	216706
Alternate Catalog	M22-DDL-WS-X1-X0Q
No.	
EL-Nummer	4355660
(Norway)	

Delivery program

Product range			RMQ-Titan
Basic function			Double actuators
Mounting hole diameter	Ø	mm	22.5
Single unit/Complete unit			Single unit
Design			Actuators and indicator lights non-flush
			momentary
Description			White lens
Button plate			
button plate			white, black
			inscribed
Degree of Protection			IP66
Front ring			Bezel: titanium
Connection to SmartWire-DT			yes with SWD-RMQ connections

Technical data

General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 ⁶	> 0.2
Operating frequency	Operations/h		≦ 3600
Actuating force		n	≦ 5
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of Protection			IP66
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
shipping classification			DNV GL LR
Indoor and protected outdoor installation			

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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	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 8.0

Low-voltage industrial components (EG000017) / Front element for push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

Number of command positions 2 Construction type lens 0 Hole diameter 25 With opening 0 Height opening 0 Type of button mm Suitable for illumination Mm Vith protective cover Mm Suitable for illumination Mm			
Construction type lens Image: Construction type lens Vidion Hole diameter mm 2.5 Width opening mm 0 Height opening mm Fall Type of button mm Fall Svitable for illumination Mm Fall With protective cover Mm Fall Svitabiling function latching Mm Fall Syning-return Mm Fall With front ring Mm Fall Material front ring Fall Fall Colour front ring Fall Fall Degree of protection (IP), front side Fall Fall	Colour button		Black/white
And examples Model and exa	Number of command positions		2
Width openingmm0Height openingmm0Type of buttonFMFASuitable for illuminationFMFAWith protective coverFMFALabelledFMFASvitching function latchingFMFASyning-returnFMFAWith front ringFMFAColour front ringFMFADegree of protection (IP), front sideFMFAPareed of protection (IP), front front (IP), front front front (IP), front fron	Construction type lens		Oval
Height opening mm 0 Type of button Fat Fat Suitable for illumination Set Set With protective cover Set Set Labelled Set Set Switching function latching Set Set Syring-return Set Set Material front ring Set Set Clour front ring Set Set Page of protection (IP), front side Set Set	Hole diameter	mm	22.5
Type of button Flat Suitable for illumination Ves With protective cover No Labelled Ves Switching function latching No Spring-return Ves With front ring Ves Material front ring Ves Colour front ring Ves Degree of protection (IP), front side Ves	Width opening	mm	0
Suitable for illumination Main Yes With protective cover No Labelled Yes Switching function latching Image: Sector S	Height opening	mm	0
With protective coverNoLabelledYesSwitching function latchingImage: Comparison of the state of	Type of button		Flat
LabelledYesSwitching function latchingImage: Sector of the sec	Suitable for illumination		Yes
Switching function latchingMoSpring-returnYesWith front ringYesMaterial front ringYesColour front ringYesDegree of protection (IP), front sideYesParticePlasticePlastice </td <td>With protective cover</td> <td></td> <td>No</td>	With protective cover		No
Spring-return Yes With front ring Yes Material front ring Yes Colour front ring Plastic Degree of protection (IP), front side Image: Spring training trainig training training training training trainig trainig train	Labelled		Yes
With front ring Yes Material front ring Plastic Colour front ring Chrome Degree of protection (IP), front side Image: Colour front ring	Switching function latching		No
Material front ring Material front ring Plastic Colour front ring Chrome Degree of protection (IP), front side Image: Chrome	Spring-return		Yes
Colour front ring Chrome Degree of protection (IP), front side IP66	With front ring		Yes
Degree of protection (IP), front side	Material front ring		Plastic
	Colour front ring		Chrome
Degree of protection (NEMA), front side 4X	Degree of protection (IP), front side		IP66
	Degree of protection (NEMA), front side		4X