## 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 <sup>6</sup>	> 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 <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 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