

Illuminated pushbutton actuator, without button plate, maintained

Powering Business Worldwide*

Part no. Q18LTR-X Catalog No. 051735 Alternate Catalog Q18LTR-X

No

Delivery program

Product range	RMQ16
Basic function	Illuminated pushbutton actuators
Single unit/Complete unit	Single unit
Design	Flat
	maintained
Description	without light elements With base, W2x4,6d; max. 30 V, 1 W
Degree of Protection	IP65
Connection to SmartWire-DT	no
Front dimensions	18 x 18

Technical data

General

Standards			IEC/EN 60947
Lifespan, mechanical	Operations	x 10 ⁶	>3
Operating frequency	Operations/h		≦ 1800
Actuating force		n	≦ 4
Degree of protection, IEC/EN 60529			IP65
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Mounting position			As required
Mechanical shock resistance			> 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
Terminal capacities		mm ²	0.5 - 1.0
Blade terminal			2.8 x 0.8 mm to DIN 46244
Fast-on connectors			2.8 x 0.8 mm to DIN 46247 and IEC 60760
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	800
Rated insulation voltage	U_{i}	V	250
Overvoltage category/pollution degree			III/3
Rated operational voltage	U _e	V AC	24
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probabilit	$< 10^{-7}, < 1 \text{ faults in } 10^{7} \text{ switch operations}$
at 5 V DC/1 mA	H _F	Fault probabilit	$< 5 \times 10^{-6}$, < 1 failure in 5×10^{6} operations
Use of insulated ferrule ISH 2,8			>24 V AC/DC recommended >50 V AC or 120 V DC is mandatory, even on unused blade terminals

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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	60
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 $\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}$			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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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])

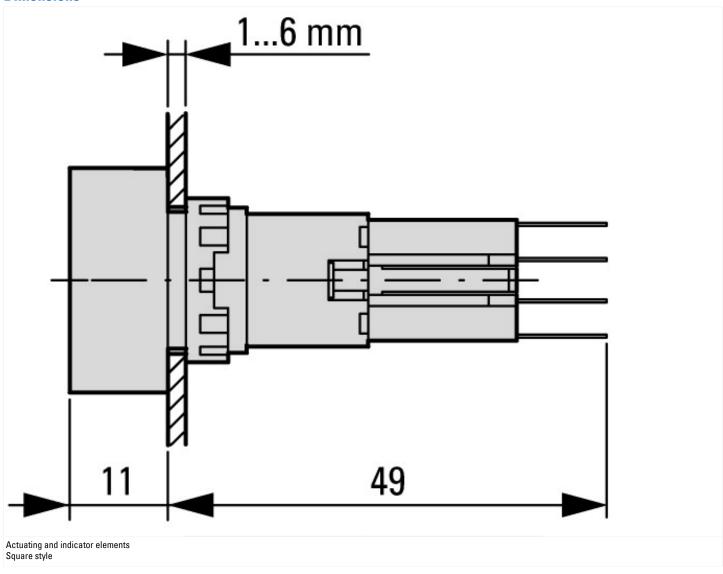
tumber of command positions onstruction type lens onstruction type lens ole diameter I mm 16 Vidth opening mm 0 eight opening mm 0 eight opening mm 0 viter of illumination vers Vith protective cover abelled viter of illumination vers witching function latching mr No viter front ring vers olour front ring length opening verse of protection (IP), front side verse of protection (IP), front side verse of protection (IP), front side verse on the side verse of protection (IP), front side verse on the side verse of protection (IP), front side verse of protectio	(ecl@ss10.0.1-27-37-12-10 [AKF028014])		
onstruction type lens ole diameter In mm In in in in it is is is is is it is is is it is is is it is is is it is is is is is it is	Colour button		Without button plate
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width opening mm 0 eight opening mm 0 yee of button Flat uitable for illumination Yes With protective cover No abelled No witching function latching No pring-return Yes With front ring National No Material front ring Plastic olour front ring Plastic eight opening mm 0 mm 0 Flat Flat No	Construction type lens		Square
reight opening mm 0 ype of button Flat uitable for illumination Yes Vith protective cover Vith protective cover vith protective cover vith incurrent protection latching No vith front ring Vith Flatic Vith Flat	Hole diameter	mm	16
ype of button ype of button ype of button yes Yes You you abelled No witching function latching pring-return Yes Yes Yes Yes Yes Yes Yes Aterial front ring loour front ring olour front ring egree of protection (IP), front side I latch Yes Hatch Hatch Yes Plastic Black I P65	Width opening	mm	0
uitable for illumination Yes Vith protective cover Abelled No witching function latching pring-return Vith front ring Vith front ring Alaterial front ring loour front ring legree of protection (IP), front side Yes Yes IP65	Height opening	mm	0
Vith protective cover abelled No witching function latching witching function latching pring-return Ves Vith front ring flaterial front ring loour front ring legree of protection (IP), front side No	Type of button		Flat
abelled No witching function latching No pring-return Yes Vith front ring Naterial front ring Plastic Olour front ring Black legree of protection (IP), front side No No No Pring-return Yes Yes Plastic Plastic	Suitable for illumination		Yes
witching function latching pring-return Yes Vith front ring Naterial front ring Plastic olour front ring Black legree of protection (IP), front side No Yes Yes Plastic Black IP65	With protective cover		No
rpring-return Yes Vith front ring Material front ring Plastic olour front ring Black legree of protection (IP), front side Plastic IP65	Labelled		No
Vith front ring Yes Material front ring Plastic clour front ring Black egree of protection (IP), front side IP65	Switching function latching		No
Material front ring Plastic olour front ring Black legree of protection (IP), front side IP65	Spring-return		Yes
olour front ring Black egree of protection (IP), front side IP65	With front ring		Yes
legree of protection (IP), front side	Material front ring		Plastic
	Colour front ring		Black
egree of protection (NEMA), front side	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA), front side		1

Approvals

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
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UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	46552
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type 1

Dimensions



Assets (links)

Declaration of CE Conformity

00002898

Instruction Leaflets

IL04716016Z2018_05

Additional product information (links)

IL04716016Z (AWA1160-1429) Mounting of components

IL04716016Z (AWA1160-1429) Mounting of components

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2018_05.pdf