# **DATASHEET - Q18D-SW**



## Pushbutton, black, momentary

Part no. Q18D-SW Catalog No. 086788 Alternate Catalog Q18D-SW

No

**EL-Nummer** 4356273

(Norway)



# **Delivery program**

Donvory program			
Product range			RMQ16
Basic function			Pushbutton actuators
Mounting hole diameter	Ø	mm	16
Single unit/Complete unit			Single unit
Design			Flat
			momentary
Button plate			
button plate			black
Button plate			
			Blank
Degree of Protection			IP65
Front ring			without bezel
Connection to SmartWire-DT			no

## **Technical data**

#### General

General			
Standards			IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	>3
Operating frequency	Operations/h		≦ 3600
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		g	> 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal

# **Design verification as per IEC/EN 61439**

Technical data for design verification			
•			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	0
Equipment heat dissipation, current-dependent	$P_{\text{vid}}$	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	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	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.
0.5 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.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
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)

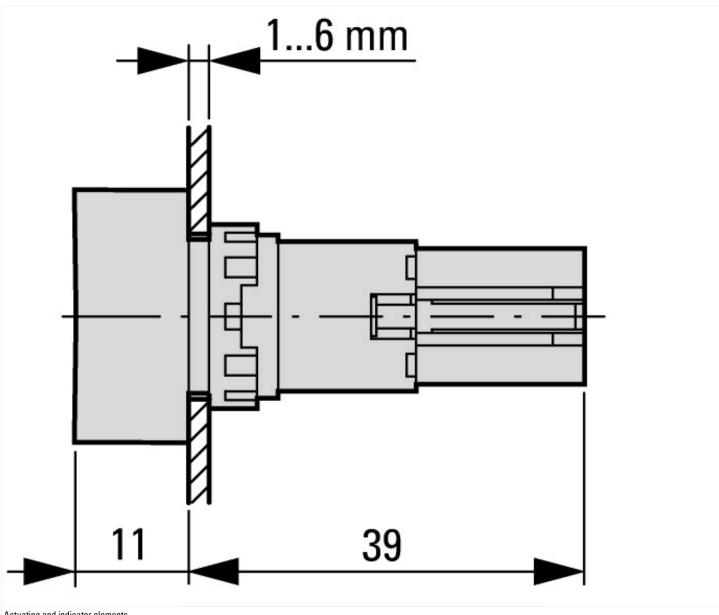
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

Colour buttonImage: Colour for command positionsImage: Colour for colour for command positionsImage: Colour for			
Construction type lens  Hole diameter  Hole diameter  Width opening  Height opening  Type of button  Suitable for illumination  With protective cover  Labelled  Switching function latching  Spring-return  With front ring  Material front ring  Material front ring  Colour front ring  Degree of protection (IP), front side	Colour button		Black
Hole diameter mm 16 Width opening mm 0 Height opening mm 0 Height opening mm 0 Type of button Flat Suitable for illumination mm No With protective cover No Labelled No Switching function latching No Spring-return Yes With front ring No Material front ring Plastic Colour front ring Black Degree of protection (IP), front side	Number of command positions		1
Width openingmm0Height openingmm0Type of buttonFlatSuitable for illuminationNoWith protective coverNoLabelledNoSwitching function latchingNoSpring-returnNoWith front ringYesMaterial front ringYesColour front ringPlasticDegree of protection (IP), front sideHes	Construction type lens		Square
Height opening mm 0 Type of button Flat Suitable for illumination No With protective cover No Labelled No Switching function latching No Spring-return Yes With front ring Yes Colour front ring Plastic Colour front ring Black Degree of protection (IP), front side	Hole diameter	mm	16
Type of button Suitable for illumination With protective cover Labelled Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  I Suitable for illumination I No Something function latching I Suitable for illumination I No Switching function latching I Suitable I No Switching function latching I Ves I Suitable I Plastic I Plastic I Plo5 I Plo	Width opening	mm	0
Suitable for illumination  Suitable for illumination  With protective cover  Labelled  Switching function latching  Spring-return  With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  No  No  No  No  Yes  Yes  Plastic  Black  IP65	Height opening	mm	0
With protective cover Labelled Switching function latching Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No	Type of button		Flat
Labelled Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No No Yes Yes Yes Yes Plastic Black Degree of protection (IP), front side  No	Suitable for illumination		No
Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No No Yes Yes  Yes  Plastic  Black  IP65	With protective cover		No
Spring-return  Yes  With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  Yes  Plastic  Black  IP65	Labelled		No
With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  Yes  Plastic  Black  IP65	Switching function latching		No
Material front ring Plastic Colour front ring Black Degree of protection (IP), front side IP65	Spring-return		Yes
Colour front ring Black Degree of protection (IP), front side IP65	With front ring		Yes
Degree of protection (IP), front side	Material front ring		Plastic
	Colour front ring		Black
Degree of protection (NEMA), front side 1	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
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

## **Dimensions**



Actuating and indicator elements Square style