

en Installation instructions Latch Mount Back-of-Panel Modules

- de** Montageanweisung
- fr** Notice de montage
- it** Istruzioni di montaggio
- zh** 安装说明书
- es** Instrucciones de montaje
- ru** Инструкция по монтажу
- pt** Instruções de instalação
- ko** 설치 매뉴얼



ATTENTION: To help prevent electrical shock, disconnect from power source before installing or servicing. Follow NFPA 70E requirements. Install in suitable enclosure. Keep free from contaminants.

Only suitably trained personnel can install, adjust, commission, use, assemble, disassemble, and maintain the product in accordance with applicable code of practice. If a malfunction or damage occurs, do not attempt to repair the product.

IMPORTANT

When working in hazardous areas, the safety of personnel and equipment depends on compliance with the relevant safety regulations. The people in charge of installation and maintenance bear a special responsibility. They must be knowledgeable of the applicable rules and regulations.

These instructions provide a summary of the most important installation measures. Everyone working with the product must read these instructions so that they are familiar with the correct handling of the product.

Keep these instructions for future reference as they must be available throughout the expected life of the product.

Product Description

- **Contact block (catalog number 800G-XLSx-EX)**
Contact blocks are used within hazardous areas where machine functions are activated by pressing a button or actuating a switch. These contact blocks are designed with self-cleaning contacts and N.O. contacts feature positive break operation. Contact blocks are compatible with all 800G non-illuminated operators and the panel mount cover accessory (catalog number 800G-APMC).
- **Power module (catalog number 800G-DLSx-EX)**
Power modules are used within hazardous areas to indicate the functional status of respective machines visually by lighting up or turning off. Power modules are compatible with all 800G pilot light operators and the panel mount cover accessory (catalog number 800G-APMC).
- **Power module with contact block (catalog number 800G-DLSxXx-EX).**
Power module with contact block combination units are used within hazardous areas where machine functions are activated by depressing a push button and the corresponding functional status is visually indicated. These units are compatible with all 800G illuminated push button operators and the panel mount cover accessory (catalog number 800G-APMC).

	Contact Block (Screw Termination)	Power Module (Screw Termination)	Power Module with Contact Block (Screw Termination)
Certifications			
ATEX	• Module: CML 17 ATEX 1107 U • Module and cover: CML 17 ATEX 1118 X	• Module: CML 17 ATEX 1108 U • Module and cover: CML 17 ATEX 1118 X	
IECEX	• Module: IECEX CML 17.0047U • Module and cover: IECEX CML 17.0056X	• Module: IECEX CML 17.0048U • Module and cover: IECEX CML 17.0056X	
UKEx	• Module: CML 21 UKEX 11394 U • Module and cover: CML 21 UKEX 11395 X	• Module: CML 21 UKEX 11393 U • Module and cover: CML 21 UKEX 11395 X	
CCC	• Module: 2020322304001834 • Module and cover: 2020322304002149	• Module: 2020322310002148 • Module and cover: 2020322304002149	
INMETRO	• Module: UL-BR 14.0567U • Module and cover: UL-BR 14.0568X	• Module: UL-BR 14.0566U • Module and cover: UL-BR 14.0568X	
Gas Protection Type	• Module: II 2 G Ex db eb IIC Gb • Module and cover: II 2 G Ex db eb IIC T6 Gb		
Dust Type (with 800G-APMC cover only)	II 2 D Ex tb IIIC T80°C Db IP 66		
Ambient Temperature Range	-55...+40 °C (-67...+104 °F) @ 16 A -55...+60 °C (-67...+140 °F) @ 11 A	-55...+50 °C (-67...+122 °F) or 60 °C (140 °F) if U _e ≤ 26.4V	
Service Temperature Range	-55...+85 °C (-67...+185 °F)		

Mechanical and Electrical Ratings			
Rated Insulation Voltage	690 V	300 V	
Power Consumption	—	≤ 1 W	
Rated Voltage (U _e)	AC 250V and 400V; DC 24V and 110V	T _a < 50 °C (122 °F): 12...250V AC, 12...60V DC T _a < 60 °C (140 °F): 12...24V AC/DC	
Illumination Colors (LED)	—	Red, green, blue, white, or yellow	
Contact Options	1 N.O./1 N.C., 2 N.O., 2 N.C.	—	1 N.O., 1 N.C.
Utilization Category (AC)	AC-12: 16 A, 400V, AC-15: 10A, 400V	—	AC-15: 1 A, 230V
Utilization Category (DC)	DC-13: 1A, 24V, DC-13:0.5 A, 110V	—	DC-13: 0.25 A, 24V
Conventional Thermal Current (I _{the})	16 A/40 °C (104 °F) 11 A/60 °C (140 °F)	—	—
Conductor Size	0.75 - 2.5 mm ² (18...14 AWG)		
Degree of Protectio	IP20 (module only); IP64/IP66 (module and operator); IP66/IP67 (module, operator, and cover)		

Additional Contact Block and Power Module Information

Front-of-panel operators are inserted into a mounting hole in an “Ex e” enclosure or control panel. The respective back-of-panel module is connected to the operator using a bayonet lock.

The conductor connection is made by wiring the conductors to terminals at the back of the contact block, power module, or power module with contact block combination unit.

Panel Mount Cover (Catalog Number 800G-APMC)

The panel mount cover accessory allows a conductor cable to be connected to the latch mount contact block, power module, or power module with contact block combination unit through a cable gland. The cover provides an increased ingress protection (IP) rating and is connected to the back-of-panel component by tightening two screws.



Configured Catalog Number (Installed)

Cat. No.	Components
800G-XLSxZ-EX	800G-XLSx-EX + 800G-APMC
800G-DLSxZ-EX	800G-DLSx-EX + 800G-APMC
800G-DLSxXz-EX	800G-DLSxXx-EX + 800G-APMC

Compatibility

Contact blocks, power modules, and power module with contact block combination units are compatible with specific front-of-panel operators.

Back-of-Panel	Front-of-Panel
Contact block	Non-illuminated operator
Power module	Pilot light
Power module and contact block	Illuminated push button

Safety Instructions

Improper installation can cause malfunctioning and the loss of explosion protection.

All back-of-panel modules and operators can only be used within the specified ambient temperature range (depending on the voltage and current).

Use in areas other than those areas specified or the modification of the product by anyone other than the manufacturer is not permitted and exempts Rockwell Automation from liability for defects and any further liability.

The applicable statutory rules and other binding directives that relate to workplace safety, accident prevention, and environmental protection must be observed.

Before you commission or restart operation, check compliance with all applicable laws and directives.

All back-of-panel modules can be used only if they are in a clean and undamaged condition. Do not modify these modules in any way.

Special Conditions for Safe Use

The contact block, power module, and power module with contact block devices must be installed in a manner that protects against mechanical damage and electrostatic charges.

Harmonized/Designated Standards Conformed To

Contact Block, Power Module, and Power Modules with Contact Block Components

- EN 60079-0
- EN 60079-1
- EN 60079-7
- IEC 60079-0
- IEC 60079-1
- IEC 60079-7

Back-of-Panel Components with Panel Mount Cover Accessory Installed

- EN 60079-0
- EN 60079-1
- EN 60079-7
- EN-60079-31
- IEC 60079-0
- IEC 60079-1
- IEC 60079-7
- IEC 60079-31

Assemble, Install, and Commission



ATTENTION: Risk of serious injury due to incorrect assembly, installation, and commissioning.

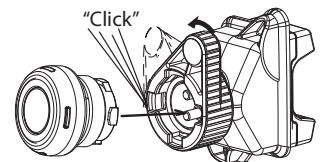
- Only qualified personnel are allowed to assemble, disassemble, install, and commission the device.
- Protect devices against mechanical damage or electrostatic discharge.
- Use suitable tools and install cable firmly.
- Use cable that is rated with an appropriate temperature range suitable for the application.

Assemble and Disassemble — Modules

IMPORTANT The components that are pictured within this publication serve as an example of all back-of-panel modules.

To mount the contact block or power module, follow these steps:

1. Verify that the contact block or power module is intact (no cracks).
2. Confirm the back-of-panel module is compatible with the installed operator (see [Compatibility](#)).
3. Position the bayonet lock facing toward the mounted front-of-panel operator.
4. Turn the locking bolt to secure the contact block or power module to the front-of-panel operator.



Installation — Modules

In hazardous areas, the contact block or power module must be used:

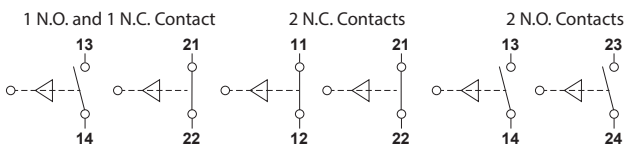
- In appropriate enclosures with “Ex e” increased safety type of protection. The clearance and creepage distances under IEC/EN 60079-7 Clauses 4.3 and 4.4 must be observed.
- In an enclosure that corresponds to another approved type of protection that is specified in IEC/EN 60079-0 Clause 1.

Take care when following these steps to connect the cable:

- Strip 40 mm (1.575 in.) of sheath off the cable.
- Remove approximately 6 mm (0.236 in.) of insulation from the conductors.
- Prepare the ends of the fine-stranded and multi-stranded conductors. Crimp wire end sleeves with suitable crimp tools. Connection cross-sections: 0.75...2.5 mm² (18...14 AWG).
- Open terminal cage and insert conductors.
- Tighten the terminals to a torque range of 0.4...0.7 N·m (3.5...6.2 lb-in).

Terminals

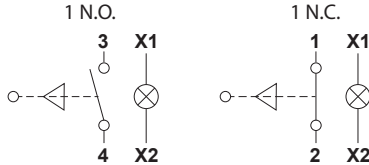
Contact Block



Power Module



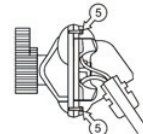
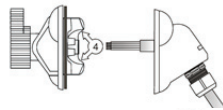
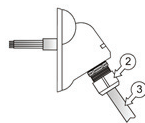
Power Module with Contact Block



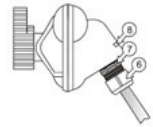
Assemble/Disassemble — Panel Mount Cover

To install the panel mount cover, follow these steps:

- Verify that the cover and the fitted sealing are intact (no cracks).
- Install the sealing gasket (1) with the round side facing downwards into the groove of the back-of-panel device.
- Strip 40 mm (1.575 in.) sheath from the cable and remove approx. 6 mm (0.236 in.) insulation from the conductors.
- Open the sealing nut (2) enough to allow the cable to be inserted.
- Feed the cable (3) into the cable gland on the cover until there is sufficient length available for preparing the cable connection.
- Close the sealing nut (2).
- Connect the conductors (4) as shown in [Installation — Modules](#).
- Push the panel mount cover firmly onto the contact block, power module, or power module with contact block combination unit.
- Tighten the screws (5) with a torque of 0.5...0.6 N·m (4.4...5.3 lb-in).



- Tighten the sealing nut (6) with a torque of 1.3 N·m / 11.5 lb-in (lock nut (7) has a max. torque of 0.6 N·m / 5.3 lb-in).
- If necessary, remove the label (8), mark it, and reinstall.



Commissioning — Cover and Modules

Before commissioning, check the following:

- The device has been installed in compliance with regulations.
- The device is not damaged.
- The connection has been established properly (verify that the conductors are secure).

Maintenance



ATTENTION: Risk of serious injury due to incorrect maintenance.

- Only qualified personnel are allowed to do any maintenance and fault clearance.
- IEC/EN 60079-17 must be observed.

You must keep the contact block, power module, and panel mount cover devices in good condition, operate them properly, monitor them, and clean them regularly.

- Check all contact blocks, power modules, panel mount covers, and cables regularly for cracks and damage. Verify that they are properly installed.

IMPORTANT

Do not clean contact blocks, power modules, or power module with contact block combination units with compressed air.

Repair and Replacement



ATTENTION: Defective contact blocks, power modules, and panel mount covers cannot be repaired; they must be replaced.

- Back-of-panel devices are defective if the contact block does not function properly or the status indicator does not illuminate on the power module.
- Devices must be replaced with an equivalent catalog number from the manufacturer.
- Panel mount covers are defective if they are damaged or if the cable no longer fits securely to maintain IP rating.

Accessories and Replacement Parts

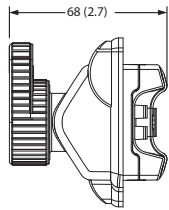
For more accessories and replacement parts that Rockwell Automation offers, see [here](#).

Disposal

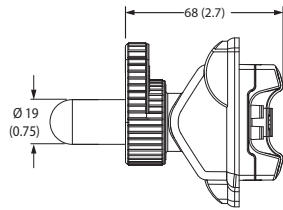
At the end of its life, this equipment must be collected separately from any unsorted municipal waste. Follow all local and national requirements for disposal of this product.

Approximate Dimensions

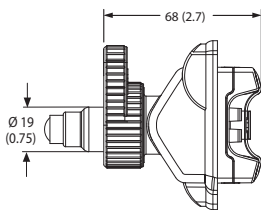
Dimensions are shown in millimeters (inches).



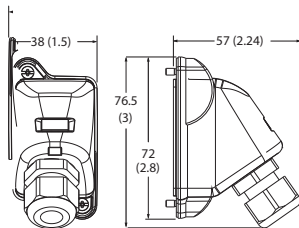
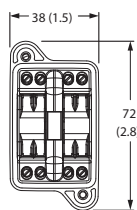
Contact Block (Cat. No. 800G-XLSx-EX)



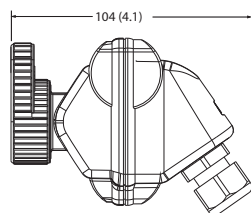
Power Module (Cat. No. 800G-DLSx-EX)



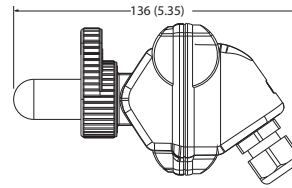
Power Module with Contact Block (Cat. No. 800G-DLSxXx-EX)



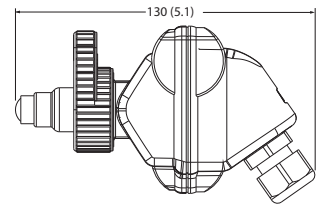
Panel Mount Cover
(Cat. No. 800G-APMC)



Panel Mount Cover and Panel Mount
Contact Block (Cat. No. 800G-XLSxZ-EX)



Panel Mount Cover and Panel Mount
Power Module (Cat. No. 800G-DLSxZ-EX)



Panel Mount Cover and Panel Mount Power
Module with Contact Block
(Cat. No. 800G-DLSxXx-EX)

Declaration of Conformity

Rockwell Automation, Inc. declares that the 800G-XLSx-EX, 800G-DLSx-EX, and 800G-DLSxXx-EX Series A latch mount contact blocks, power modules, and power module with contact block units are in compliance with Essential Health and Safety Requirements of Directive 2014/34/EU (ATEX) and Directive UKSI 2016:1107 (as amended) as follows:





- Equipment Group II, Equipment Category 2
- Type of Protection "Ex db eb IIC Gb"
- Compliance to standards EN 60079-0:2018, EN 60079-1:2014, and EN 60079-7:2015+A1:2018 per ATEX Type Examination Certificates CML 17ATEX1107U and CML 17ATEX1108U; and UKEx Type Examination Certificate CML 21UKEX11394U and CML 21UKEX11393U

Hereby, Rockwell Automation, Inc. declares that the 800G-XLS*Z-EX, 800G-DLS*Z-EX, and 800G-DLS*X*Z-EX Series A latch mount contact blocks, power modules, and power module with contact block units with the panel mount cover accessory installed (800G-APMC) are in compliance with Essential Health and Safety Requirements of Directive 2014/34/EU (ATEX) and Directive UKSI 2016:1107 (as amended) as follows:

- Equipment Group II, Equipment Category 2
- Type of Protection "Ex db eb IIC Gb / Ex tb IIIC T80°C Db IP66"
- Compliance to standards EN 60079-0:2018, EN 60079-1:2014, and EN 60079-7:2015+A1:2018 per ATEX Type Examination Certificates CML 17ATEX1118X and UKEx Type Examination Certificate CML 21UKEX11395X

The full text of the EU declarations of conformity is available at the following website:

https://literature.rockwellautomation.com/idc/groups/literature/documents/ct/800g-ct026_-en-e.pdf

Connect with us.    

For Technical Support, visit rok.auto/support.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

Product certificates are located in the Rockwell Automation Literature Library: rok.auto/certifications.

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