### Product Description

- **Contact block (catalog number 800G-XBx-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.

- **Power module (catalog number 800G-DBx-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.

- **Power module with contact block (catalog number 800G-DBxXx-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.

### 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.

### Certifications

<table>
<thead>
<tr>
<th>Contact Block (Screw Termination)</th>
<th>Power Module (Screw Termination)</th>
<th>Power Module with Contact Block (Screw Termination)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX CML 17 ATEX 1107 U</td>
<td>CML 17 ATEX 1108 U</td>
<td>CML 17 ATEX 1108 U</td>
</tr>
<tr>
<td>IECEx CML 17.0047U</td>
<td>IECEx CML 17.0048U</td>
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<tr>
<td>UKEx CML 21 UKEx 11394U</td>
<td>CML 21 UKEx 11393U</td>
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<tr>
<td>CCC 202032304001834</td>
<td>2020322310002148</td>
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<tr>
<td>INMETRO UL-14.0567U</td>
<td>UL-14.0566U</td>
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<tr>
<td>Gas protection type</td>
<td></td>
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<tr>
<td>II 2 G Ex db eb IIC Gb</td>
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<tr>
<td>Ambient Temperature Range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-55...+40 °C (-67...+104 °F) @ 16 A</td>
<td>-55...+50 °C (-67...+122 °F) or 60 °C (140 °F) if Ue ≤26.4V</td>
<td></td>
</tr>
<tr>
<td>Service Temperature Range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-55...+85 °C (-67...+185 °F)</td>
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</table>

### Mechanical and Electrical Ratings

- **Rated Insulation Voltage**: 690V
- **Power Consumption**: ≤1 W
- **Rated Voltage (Ue)**: 250V and 400V; DC 24V and 110V
- **Illumination Colors (LED)**: Red, green, blue, white, or yellow
- **Contact Options**: 1 N.O./1 N.C., 2 N.O., 2 N.C.
- **Utilization Category (AC)**: AC-12: 16A, 400V; AC-15: 10 A, 400V
- **Utilization Category (DC)**: DC-13: 1A, 24V; DC-13: 0.5 A, 110V
- **Conventional Thermal Current (Ith)**: 16 A/40 °C (104 °F)
- **Conductor Size**: 0.75...2.5 mm² (18...14 AWG)
- **Degree of Protection**: • Module only: IP20
  • Module and operator: IP64/IP66
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 mounted directly underneath the operator by latching onto a DIN mounting rail (NS 357.5).

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.

Compatibility

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

<table>
<thead>
<tr>
<th>Back-of-Panel</th>
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</thead>
<tbody>
<tr>
<td>Contact block</td>
<td>Non-illuminated operator</td>
</tr>
<tr>
<td>Power module</td>
<td>Pilot light</td>
</tr>
<tr>
<td>Power module and contact block</td>
<td>Illuminated push button</td>
</tr>
</tbody>
</table>

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.

Harmonized/Designated Standards Conformed To

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

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

IMPORTANT The contact block in the following diagram serves as an example of all back-of-panel modules.

Measurements are shown in mm (in.)

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 contact block or power module on the mounting DIN rail.
4. Align the position of the contact block or power module on the mounting DIN rail at the front-of-panel operator.
Installation

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:

1. Strip 40 mm (1.575 in.) of sheath off the cable.
2. Remove approximately 6 mm (0.236 in.) of insulation from the conductors.
3. 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).
4. Open terminal cage and insert conductors.
5. Tighten the terminals to a torque range of 0.4…0.7 N·m (3.5…6.2 lb·in).

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 and power module devices in good condition, operate them properly, monitor them, and clean them regularly.

- Check all contact blocks, power modules, operators, 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 and power modules 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.

Accessories and Replacement Parts

For more accessories and replacement parts that Rockwell Automation offers, see https://ab.rockwellautomation.com/Push-Buttons/Hazardous-Location/800G.

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.

Commissioning

Before commissioning, check the following:

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

Dimensions are shown in millimeters (inches).

Contact Block
(Catalog Number 800G-XBx-EX)

Power Module
(Catalog Number 800G-DBx-EX)

Power Module with Contact Block
(Catalog Number 800G-DBxXx-EX)

Declaration of Conformity

Rockwell Automation, Inc. declares that the 800G-XBx-EX, 800G-DBx-EX, 800G-DBxXx-EX Series A base 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

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

http://www.rockwellautomation.com/global/certification