



## Main

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Range of product             | Modicon M340 automation platform                                 |
| Product or component type    | Discrete I/O module                                              |
| Product specific application | For severe environments                                          |
| Electrical connection        | 20-way connector                                                 |
| Discrete input number        | 8                                                                |
| Input type                   | Current sink (logic positive)                                    |
| Discrete input voltage       | 24 V DC positive                                                 |
| Discrete input current       | 3.5 mA                                                           |
| Input compatibility          | With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 |
| Discrete output number       | 8                                                                |
| Discrete output type         | Solid state                                                      |
| Discrete output voltage      | 24 V 26.4 V DC at 70 °C<br>24 V 19...30 V DC at 60 °C            |
| Discrete output current      | 0.5 A                                                            |

## Complementary

|                                 |                                                                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor power supply             | 26.4 V at 70 °C<br>19...30 V at <= 60 °C                                                                                                                                        |
| Voltage state 1 guaranteed      | >= 11 V                                                                                                                                                                         |
| Current state 1 guaranteed      | >= 3 mA                                                                                                                                                                         |
| Voltage state 0 guaranteed      | <= 5 V                                                                                                                                                                          |
| Current state 0 guaranteed      | <= 1.5 mA                                                                                                                                                                       |
| Current per channel             | 0.55 A at 70 °C<br><= 0.625 A at <= 60 °C                                                                                                                                       |
| Current per module              | 4.4 A at 70 °C<br><= 5 A at <= 60 °C                                                                                                                                            |
| Leakage current                 | <= 0.5 mA at state 0                                                                                                                                                            |
| [Ures] residual voltage         | <= 1.2 V at state 1                                                                                                                                                             |
| Input impedance                 | 6800 Ohm                                                                                                                                                                        |
| Insulation resistance           | > 10 MOhm 500 V DC                                                                                                                                                              |
| Power dissipation in W          | <= 3.7 W                                                                                                                                                                        |
| DC typical filtering time       | 4 ms                                                                                                                                                                            |
| DC maximum filtering time       | 7 ms                                                                                                                                                                            |
| Response time on output         | 1.2 ms                                                                                                                                                                          |
| Paralleling of outputs          | Yes : 2 maximum                                                                                                                                                                 |
| Typical current consumption     | 30 mA at 24 V DC<br>100 mA at 3.3 V DC                                                                                                                                          |
| Current consumption             | <= 67 mA at 24 V DC<br><= 111 mA at 3.3 V DC                                                                                                                                    |
| MTBF reliability                | 447581 H                                                                                                                                                                        |
| Protection type                 | 1 external fuse per group of input channel 0.5 A fast blow<br>Reverse polarity protection on output<br>Reverse polarity protection on input<br>Overvoltage protection on output |
| Output overload protection      | With electronic circuit breaker 1.5 In < Id < 2 In<br>With current limiter                                                                                                      |
| Output overvoltage protection   | With transil diode                                                                                                                                                              |
| Output short-circuit protection | With 2 A external fuse                                                                                                                                                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                             |                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reverse polarity protection | Reverse mounted diode                                                                                                                                    |
| Voltage detection threshold | > 18 V DC sensor OK<br>> 18 V DC preactuator OK<br>< 14 V DC sensor fault<br>< 14 V DC preactuator fault                                                 |
| Tungsten load               | <= 6 W                                                                                                                                                   |
| Switching frequency         | 0.5/LI² Hz                                                                                                                                               |
| Overload time               | <= 15 ms                                                                                                                                                 |
| Load impedance ohmic        | <= 48 Ohm                                                                                                                                                |
| Status LED                  | 1 LED red for module I/O<br>1 LED red for module error (ERR)<br>1 LED per channel green for channel diagnostic<br>1 LED green for module operating (RUN) |
| Product weight              | 0.115 kg                                                                                                                                                 |

## Environment

|                                       |                                                                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP20                                                                                                                                                                                                                  |
| Standards                             | CSA C22.2 No 142<br>IEC 1131-2<br>IEC 664<br>NF C 63-850<br>UL 508<br>UL 746C                                                                                                                                         |
| Dielectric strength                   | 500 V DC 1 minute, between group of inputs and outputs<br>1500 V AC at 50/60 Hz 1 minute, primary/secondary<br>1500 V AC at 50/60 Hz 1 minute, output/internal logic<br>1500 V AC at 50/60 Hz 1 minute, output/ground |
| Ambient air temperature for operation | -25...70 °C                                                                                                                                                                                                           |
| Relative humidity                     | 10...95 % without condensation                                                                                                                                                                                        |
| Protective treatment                  | Conformal coating Humiseal 1A33<br>TC                                                                                                                                                                                 |
| Environmental characteristic          | 3C4 conforming to EN/IEC 60721-3-3<br>3C3 conforming to EN/IEC 60721-3-3                                                                                                                                              |

## Offer Sustainability

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status      | Not Green Premium product                                                             |
| RoHS (date code: YYWW)        | Compliant - since 0911 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                         | Reference not containing SVHC above the threshold                                     |
| Product environmental profile | Available <a href="#">Download Product Environmental</a>                              |

## Modules Mounted on Racks

### Dimensions

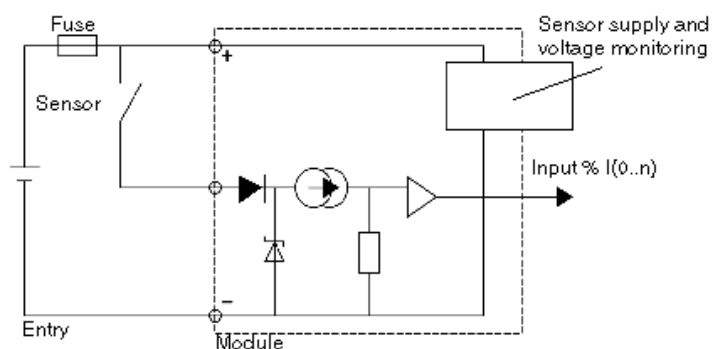


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

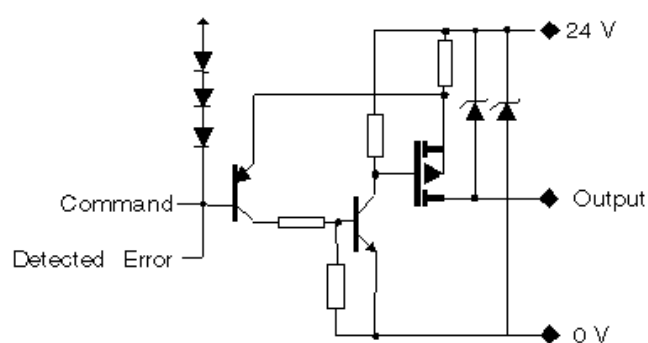
| Rack references            | a in mm | a in in. |
|----------------------------|---------|----------|
| BMXXBP0400 and BMXXBP0400H | 242.4   | 09.54    |
| BMXXBP0600 and BMXXBP0600H | 307.6   | 12.11    |
| BMXXBP0800 and BMXXBP0800H | 372.8   | 14.68    |
| BMXXBP1200 and BMXXBP1200H | 503.2   | 19.81    |

## Connecting the Module

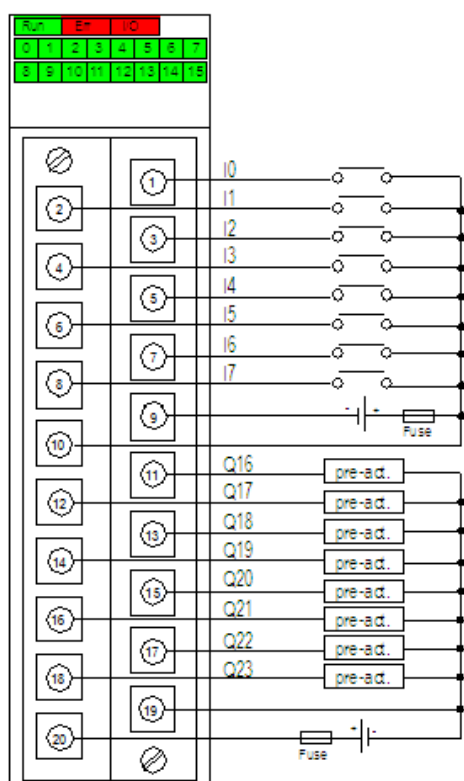
### Input Circuit Diagram



### Output Circuit Diagram



## Module Connection



powe24 VDC  
supply  
input fast blow fuse of 0.5 A  
fuse  
outpfast blow fuse of 6.3 A  
fuse  
pre- pre-actuator  
act