



Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	32 conforming to EN/IEC 61131-2
Discrete output logic	Positive
Discrete output voltage	24 V 19...30 V DC
Discrete output current	0.1 A
Output compatibility	IEC 61131-2 type 3 DC input Not IEC 61131-2 DC input

Complementary

Current per channel	0.125 A
Maximum current per module	3.2 A
Maximum leakage current	0.1 mA at state 0
[Ures] residual voltage	1.5 V at state 1
Insulation resistance	> 10 MOhm 500 V DC
Maximum power dissipation in W	3.6 W
Response time on output	1.2 ms
Paralleling of outputs	Yes : 3 maximum
Typical current consumption	125 mA at 3.3 V DC
MTBF reliability	312254 H
Protection type	Reverse polarity protection External short-circuit protection Overload protection Overvoltage protection
Output overload protection	With current limiter With electronic circuit breaker $0.125\text{ A} < I_d < 0.185\text{ A}$
Output overvoltage protection	With transil diode
Output short-circuit protection	With 2 A external fuse
Reverse polarity protection	Reverse mounted diode
Voltage detection threshold	< 14 V DC preactuator fault > 18 V DC preactuator at state 0
Maximum tungsten load	1.2 W
Switching frequency	0.5/LI ² Hz
Maximum overload time	15 ms
Load impedance ohmic	$\geq 220\text{ Ohm}$
Status LED	1 LED (green)module operating (RUN): 1 LED per channel (green)channel diagnostic: 1 LED (red)module error (ERR): 1 LED (red)module I/O:
Product weight	0.11 kg

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive
Product certifications	EAC CE CSA Merchant Navy UL RCM
Standards	EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, output/ground 1500 V AC at 50/60 Hz 1 minute, output/internal logic 500 V DC 1 minute, between group of channels
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...60 °C
Relative humidity	5...95 % at 55 °C without condensation
Protective treatment	TC
Operating altitude	0...2000 m 2000...5000 m with derating factor

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
----------	-----------

Modules Mounted on Racks

Dimensions

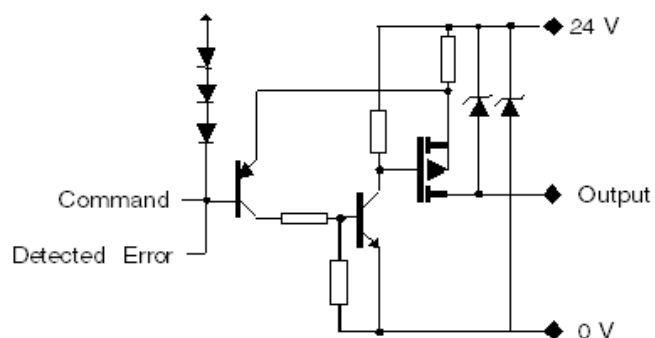


- (1) With removable terminal block (cage, screw or spring).
 (2) With FCN connector.
 (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

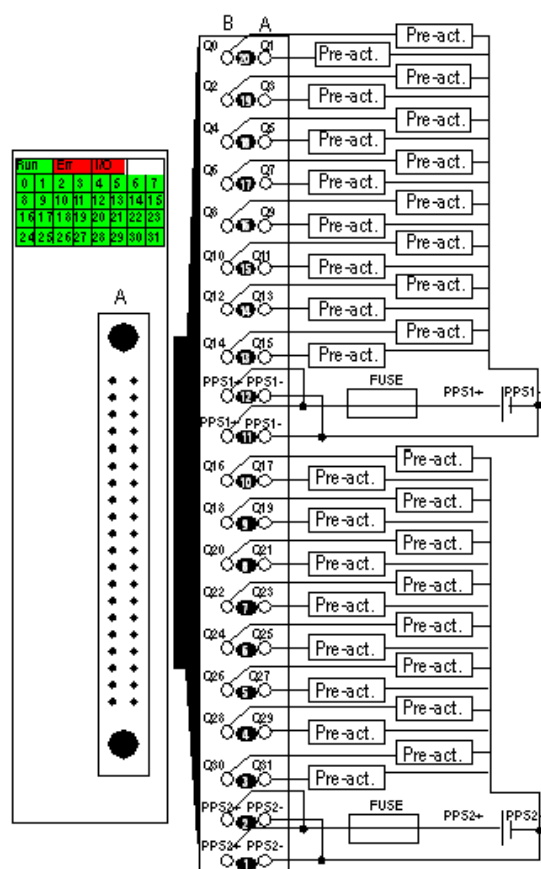
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

Output Circuit Diagram



Module Connection



power 24 VDC

supply

fuse fast blow fuse of 2 A for each 16-channel group

pre- pre-actuator

act

PPS pre-actuator power supply