



Main

Range of product	Modicon X80
Product or component type	Fibre optic repeater
Optic fiber type	Multi mode

Complementary

Rated voltage	24 V
Current consumption	140 mA typical 200 mA maximum
Function available	Hot swap
Number of port	2 RJ45 with 100BASE-TX port Ethernet conforming to IEEE 802.3u 2 fiber optic with 100BASE-FX port Ethernet conforming to IEEE 802.3u
Local signalling	1 LED (green) for power supply status 1 LED (red) for error condition (ERR) 2 LEDs (green) for link status 2 LEDs (green) for fiber port state and activity
Wavelength	1310 nm
Operating distance	0...2000 m
Attenuation	-23.5...-14 DB (50/125 µm) -20...-14 dB (62.5/125 µm)
Rise/fall time	3 ns
Receiver sensitivity	- 31...- 14 dBm
Marking	CE
Width	32 mm
Height	100 mm
Depth	86 mm
Net weight	203 g

Environment

Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...95 %
Protective treatment	Conformal coating
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy[RETURN]ATEX zone 2/22[RETURN]IECEx zone 2/22

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Standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0
Environmental characteristic	Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2
Dielectric strength	1400 V DC between field and bus 500 V DC between channels
IP degree of protection	IP20
Operating altitude	0...4000 m

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	13.000 cm
Package 1 Weight	258.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.915 kg

### Offer Sustainability

REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

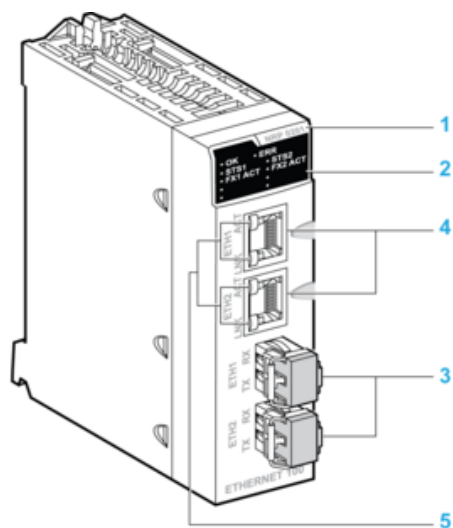
### Contractual warranty

Warranty	18 months
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Presentation

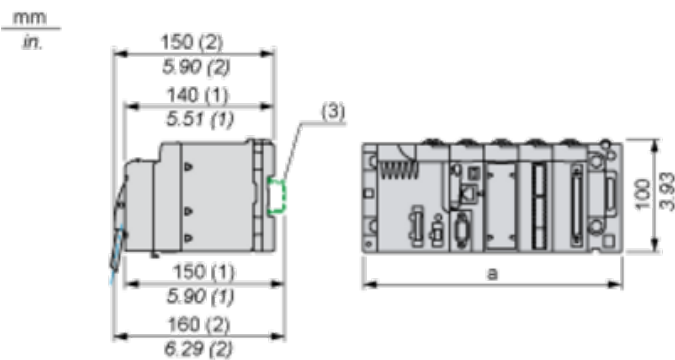
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- 1 : Model number
- 2 : LED display panel
- 3 : Optical port with SFP transceiver for LC-type connector
- 4 : RJ45 Ethernet port
- 5 : LNK and ACT LED indicators on the RJ45 Ethernet port

Modules Mounted on Racks

Dimensions

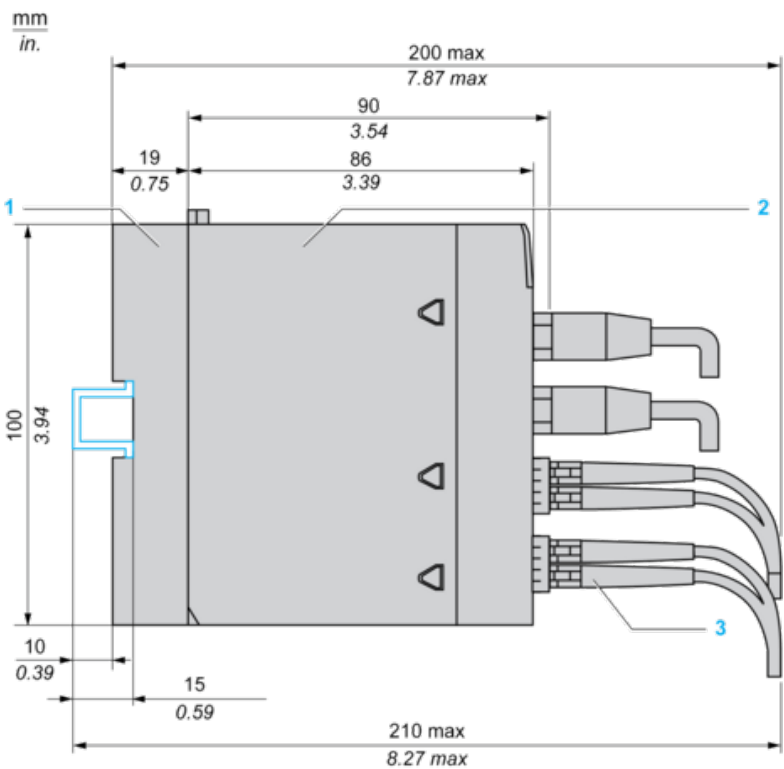


- (1) With removable terminal block (cage, screw or spring).  
(2) With FCN connector.  
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

Mechanical Specifications

Dimensions



1 : Backplane

2 : Module

3 : Cable connections