

BMXERT1604H

multifunction input module Modicon X80 - 16 I -
24/24..125 V - for severe environment



Main

Range of Product	Modicon X80
Product or Component Type	Multifunction input module

Complementary

Function Available	Hot swap
Data recording	1 ms time stamps
Time synchronisation protocol	DCF77 IRIG-B
Group of channels	4 groups of 4 inputs process input
[Us] rated supply voltage	24 V DC 19...30 V) 48...60 V DC 38...75 V) 110...125 V DC 88...156 V)
Switching voltage	125 V 1.3 mA process input 110 V 1.3 mA process input 60 V 2.5 mA process input 48 V 2.5 mA process input 24 V 6.7 mA process input
Maximum power consumption in W	4 W process input
Current consumption	30 mA 24 V DC 130 mA 3.3 V DC
Isolation voltage	2500 V DC 60 s bus to discrete input 1400 V DC 60 s bus to IRIG/DCF 2500 V DC 60 s discrete input to IRIG/DCF
Anti bounce filtering	Configurable from 0 to 255 ms
Sampling duration	0.5 ms
Acquisition time	1 ms
Local signalling	For firmware and module run (RUN) 1 LED (green) For status of time code input (T) 1 LED (green) For module fault (ERR) 1 LED (red) For power supply interruption (I/O) 1 LED (red) For input status (0...15) 16 LEDs
Width	1.26 in (32 mm)
Height	3.94 in (100 mm)
Depth	3.39 in (86 mm)

Environment

Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative Humidity	95 % without condensation
Protective treatment	Conformal coating
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m

Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product Certifications	CE[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy
Standards	EN 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
Environmental characteristic	Gas resistant class Gx ISA S71.04 Gas resistant class 3C4 IEC 60721-3-3 Dust resistant class 3S4 IEC 60721-3-3 Sand resistant class 3S4 IEC 60721-3-3 Salt resistant level 2 IEC 68252 Mold growth resistant class 3B2 IEC 60721-3-3 Fungal spore resistant class 3B2 IEC 60721-3-3 Hazardous location class I division 2

Ordering and shipping details

Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3606489811006
Returnability	No

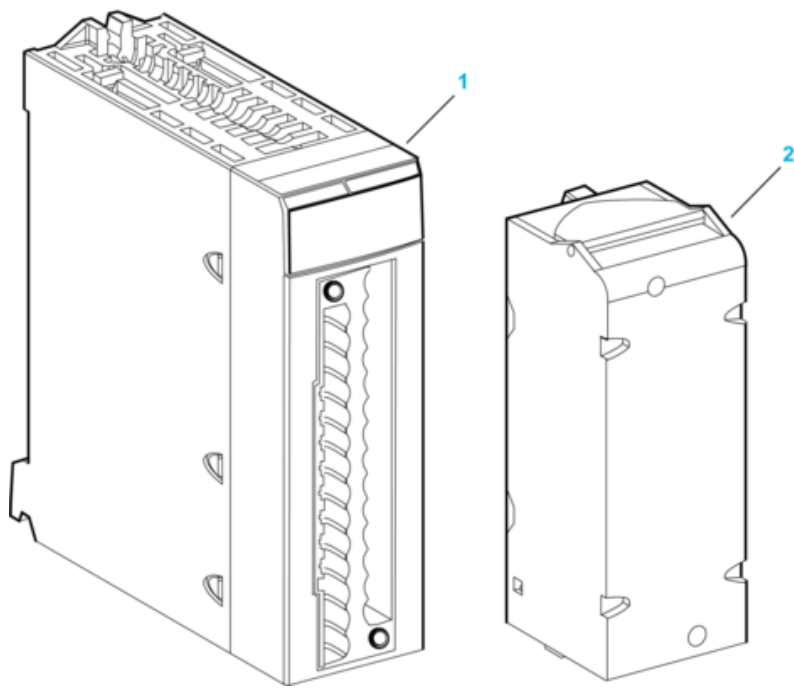
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.39 in (8.6 cm)
Package 1 Width	1.26 in (3.2 cm)
Package 1 Length	4.25 in (10.8 cm)
Package 1 Weight	6.03 oz (171.0 g)

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

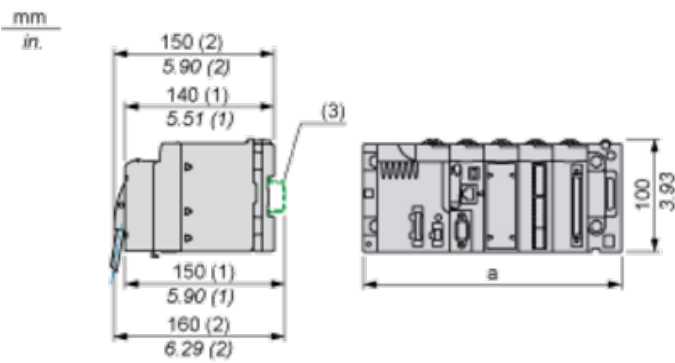
Presentation



- 1 : Module
2 : 28-pin removable terminal block (provided separately)

Modules Mounted on Racks

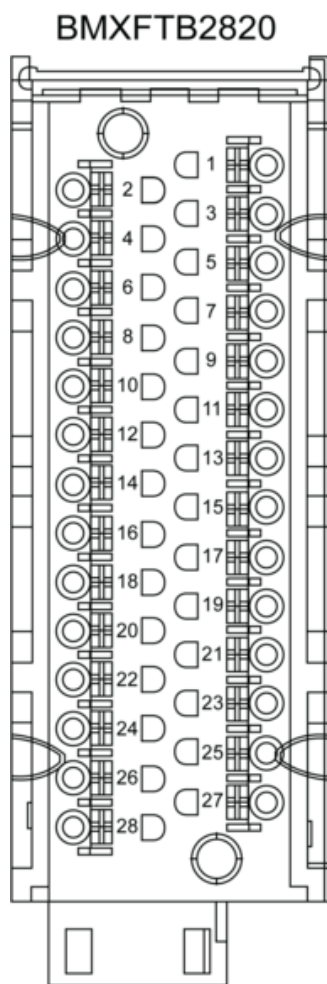
Dimensions



- (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

Wiring Diagram



Definition	Pin Number		Definition
DCF_IN	2	1	IRIG+
DCF_COM	4	3	IRIG-
Not Connected	6	5	Not Connected
I1	8	7	I0
I3	10	9	I2
I5	12	11	I4
I7	14	13	I6
I9	16	15	I8
I11	18	17	I10
I13	20	19	I12
I15	22	21	I14
Not Connected	24	23	Not Connected
UB+	26	25	0 Vdc
UB+	28	27	0 Vdc

