

BMXMSP0200

PTO module - 2 channels - 4 input - 24 V DC -
4.3 mA - 2 connectors 28 pins



Main

Range of product	Modicon M340 automation platform
Product or component type	PTO module
Number of channels	2
Number of inputs	4
Discrete input type	Current sink yes proximity input and limit switch input conforming to IEC 61131-2 type 3 Current sink yes origin input conforming to IEC 61131-2 type 3 Current sink or source drive ready, emergency input conforming to IEC 61131-2 type 3 Current sink or source counter in position input conforming to IEC 61131-2 type 3
Input compatibility	2-wire/3-wire proximity sensor 19.2...30 V conforming to IEC 947-5-2
Output compatibility	RS422, 7 mA input Signal converter (USIC) Source input, 5 V to 24 V
Output frequency	200 kHz < 10 m 200 kHz < 0.5 m with USIC and VW3M8210R05 100 kHz < 5 m

Complementary

Operating threshold	> 8 V error supply voltage > 12 V no error supply voltage
Input voltage	24 V DC
Input current	4.3 mA
Voltage state 1 guaranteed	<= 11 V
Current state 1 guaranteed	> 2 mA
Voltage state 0 guaranteed	5 V
Current state 0 guaranteed	< 1.5 mA
Response time	< 60 µs for origin input and proximity input < 200 µs for position completed input and drive ready input
Number of outputs	2 auxiliary output 1 pulse output
Preactuator voltage detection threshold	> 14 V no error preactuator voltage pulse output > 14 V error preactuator voltage pulse output < 8 V no error preactuator voltage auxiliary output < 8 V error preactuator voltage auxiliary output
Output voltage	24 V DC
Output voltage limits	19...30 V
Discrete output current	50 mA
Current per channel	0.4 A
Leakage current	< 0.05 mA at state 0
[Ures] residual voltage	< 0.15 V at state 1
Response time on output	1.2...1.5 ms on disappearance 1.2...1.5 ms on appearance
Load impedance ohmic	15000 Ohm
Output overload protection	By current limiter and electronic circuit breaker
Output short-circuit protection	By current limiter and electronic circuit breaker
Reverse polarity protection	Integrated on input By reverse mounting diode on output
Insulation between channels	No insulated
Insul btwn prim and second	1500 Vrms

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.

Insulation resistance	<= 10 MOhm
Local signalling	8 LEDs green channel status (CH01) 8 LEDs green channel status (CH00) 1 LED green download (DL) 1 LED red internal fault, module failure (ERR) 1 LED red external fault (I/O) 1 LED green module operating (RUN)
Electrical connection	2 connectors 28 pins
Current consumption	35 mA 24 V DC preactuator 200 mA 3.3 V DC
Module format	Standard

Environment

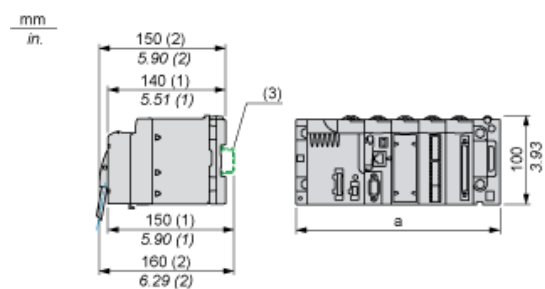
Ambient air temperature for operation	-25...70 °C
Derating factor	Without

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0901 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental

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

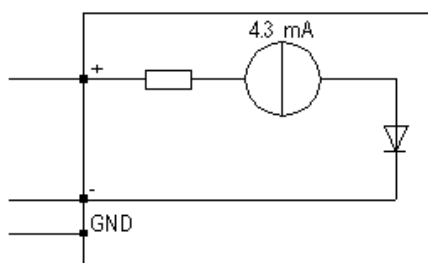
PTO Module Wiring

Auxiliary Inputs for Each PTO Channel

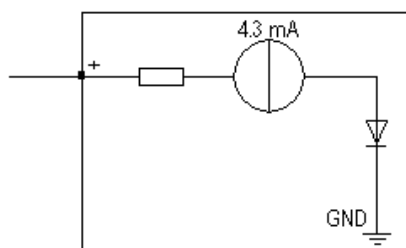
- Auxiliary Input 0: Drive_Ready&Emergency
- Auxiliary Input 1: Counter_in_Position
- Auxiliary Input 2: Origin (Signal used only for homing mode)
- Auxiliary Input 3: Proximity&LimitSwitch

Inputs Circuit Diagrams

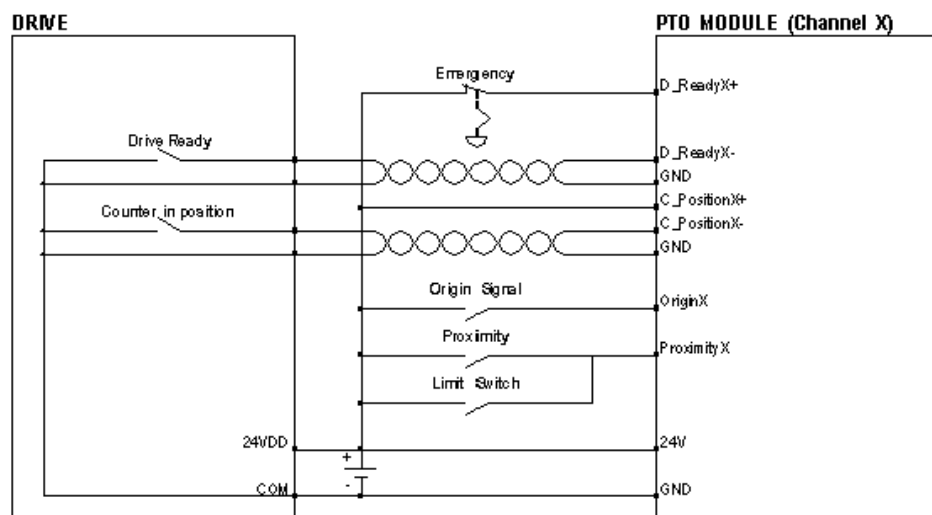
Drive_Ready&Emergency inputs or Counter_in_Position (SINK/SOURCE input type):



Origin or Proximity&LimitSwitch inputs (SINK input type):

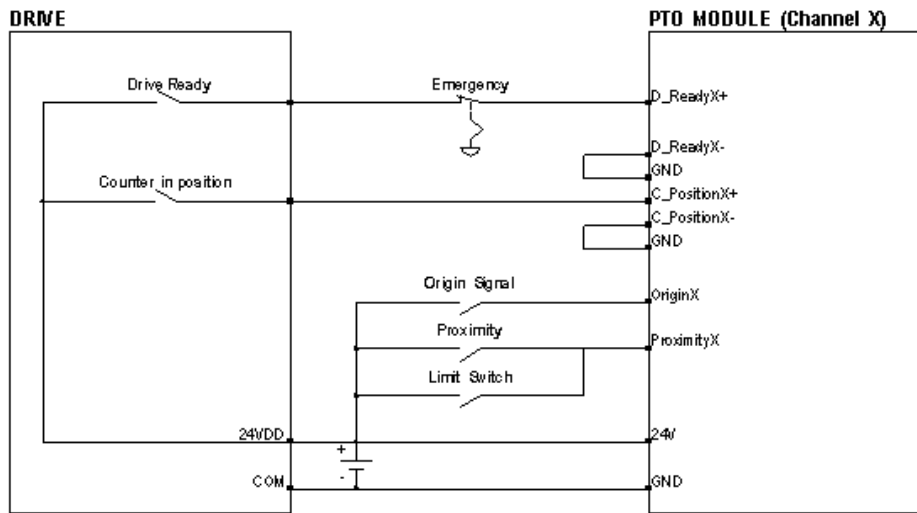


Module Connection for Drive_Ready&Emergency and Counter_in_Position of SINK type



A twisted pair cable is necessary to connect the module to the drive.

Module Connection for Drive_Ready&Emergency and Counter_in_Position of SOURCE type



NOTE: In order to stop the PTO module when the PLC is set to STOP, connect the D_ReadyX+ input to the PTO module via a BMXDRA0805 or a BMXDRA1605. This will make all outputs stop when the D_Ready&Emergency input is set to 0.