

Product data sheet

Specifications

Modicon FTB FTM range



I/O splitter box FTB monobloc - IP67 - for Profibus DP - 0..16I - 0..16O

FTB1DP16CP0

⚠ Discontinued on: Dec 31, 2010

⚠ End-of-service on: Dec 31, 2018

⚠ Discontinued

Main

Range Of Product	Advantys FTB
Product Or Component Type	IP67 monobloc I/O splitter box
Enclosure Material	Plastic
Bus Type	Profibus DP
Input/Output Number	16
Discrete Input Number	0...16
Discrete Output Number	0...16
Structure Type	According to DIN 19245 According to EN 50170

Complementary

[Ue] Rated Operational Voltage	24 V DC
Maximum Supply Current	8 A
Internal Current Consumption	120 mA
Discrete Input Voltage	24 V
Discrete Input Voltage Type	DC
Maximum Discrete Input Current	200 mA
Discrete Input Logic	Positive
Product Compatibility	With 2-wire/3-wire sensors
Discrete Output Voltage	24 V
Discrete Output Voltage Type	DC
Discrete Output Current	1600 mA
Discrete Output Type	Transistor
Sensor Power Supply	18...30 V
Reverse Polarity Protection	Internal
Switching Frequency	<= 20 Hz
Maximum Tungsten Load	10 W
Electrical Connection	1 female connector 7/8" (power OUT) 1 female connector M12 (bus OUT) 1 male connector 7/8" (power IN) 1 male connector M12 (bus IN) 8 female connectors M12 (sensor or actuator)

Disclaimer: 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

Output Connection Cable Size	0.34 mm², cable length <5 m 0.75 mm², cable length <10 m
Method Of Access	Multimaster Master/slave
Transmission Rate	12 Mbit/s
Transmission Support Medium	2 twisted, type A, shielded wires (RS485)
Number Of Addresses	1...126 with repeater 1...32 without repeater
Input/Output Number Of Splitter Box	8 I/O + 8 I/O diagnostic
Output Overvoltage Protection	Suppressor diode
Protection Type	Short-circuit protection
Input Filtering	1 ms
Control Threshold Undervoltage	0...18 V
Status Led	1 LED per channel channel diagnostic 1 LED per channel channel status 1 LED actuator power supply error 1 LED actuator power supply status 1 LED bus diagnostic 1 LED sensor power supply error 1 LED sensor power supply status
Surge Withstand	-1 kV power supply (asymmetrical) conforming to IEC 61000-4-5 1 kV power supply (asymmetrical) conforming to IEC 61000-4-5 -1 kV signal (asymmetrical) conforming to IEC 61000-4-5 1 kV signal (asymmetrical) conforming to IEC 61000-4-5 0.5 kV ground/PE conforming to IEC 61000-4-5 0.5 kV power supply (symmetrical) conforming to IEC 61000-4-5 0.5 kV signal (symmetrical) conforming to IEC 61000-4-5
Operating Position	Any position
Fixing Mode	By 2 screws
Tightening Torque	1.5 N.m for M4 screw(s)
Net Weight	0.43 kg

Environment

Standards	IEC 1131-2 Type 2
Product Certifications	cULus
Ambient Air Temperature For Operation	0...55 °C
Ambient Air Temperature For Storage	-25...70 °C
Ip Degree Of Protection	IP67 conforming to IEC 60529
Operating Altitude	0...2000 m
Vibration Resistance	0.35 mm constant amplitude (f= 10...57 Hz) conforming to IEC 68-2-6, FC test 5 gn constant acceleration (f= 57...150 Hz) conforming to IEC 68-2-6, FC test
Shock Resistance	30 gn for 11 ms conforming to IEC 68-2-27, EA tests
Resistance To Electrostatic Discharge	-4 kV in contact conforming to IEC 61000-4-2 4 kV in contact conforming to IEC 61000-4-2 -8 kV in air conforming to IEC 61000-4-2 8 kV in air conforming to IEC 61000-4-2
Resistance To Radiated Fields	10 V/m conforming to IEC 61000-4-3
Resistance To Fast Transients	-2 kV (power supply) conforming to IEC 61000-4-4 2 kV (power supply) conforming to IEC 61000-4-4 -2 kV (signal) conforming to IEC 61000-4-4 2 kV (signal) conforming to IEC 61000-4-4

Resistance To Conducted Disturbances	10 V conforming to IEC 61000-4-6
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Contractual warranty

Warranty	18 months
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