Product data sheet

Specifications



I/O distributed module OTB - Ethernet TCP/IP - 0..100 m

OTB1E0DM9LP

Discontinued on: Dec 1, 2020

End-of-service on: Dec 1, 2020

Discontinued - Service only

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon OTB
Product or Component Type	I/O distributed module
Integrated connection type	Ethernet TCP/IP RJ45 1 twisted pair 10/100 Mbit/s transparent ready class A10
Discrete input number	12 EN/IEC 61131 type 1
Discrete input logic	Sink or source
Discrete input current	5 mA I0...I1 5 mA I6...I7 7 mA I2...I5 7 mA I8...I11
Discrete output number	2 solid state PNP Q0...Q1 source 6 relay Q2...Q7
Discrete output current	2000 mA relay 300 mA solid state

Complementary

Concept	Transparent Ready
Port Ethernet	10BASE-T/10BASE-TX
Bus length	0…328.08 ft (0…100 m), copper
Number of devices per segment	0…256
Communication Service	Modbus messaging
Web services	No standard Web server
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete input type	NPN or PNP
Input voltage limits	20.4...26.4 V
Electronic filtering time	0.035 ms I0...I1 at state 1 0.035 ms I6...I7 at state 1 0.04 ms I2...I5 at state 1 0.04 ms I8...I11 at state 1 0.045 ms I0...I1 at state 0 0.045 ms I6...I7 at state 0 0.15 ms I2...I5 at state 0 0.15 ms I8...I11 at state 0
Configurable filtering time	0 ms 3 ms 12 ms

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Input impedance	3.4 kOhm I2...I5 3.4 kOhm I8...I11 5.7 kOhm I0...I1 5.7 kOhm I6...I7
Discrete output voltage	24 V DC solid state 240 V AC relay 30 V DC relay
Output voltage limits	20.4...28.8 V solid state
Maximum output current	360 mA, solid state
Maximum current per output common	8 A relay 0.72 A solid state
Current consumption	30 mA 5 V DC at state 1) relay output 40 mA 24 V DC at state 1) relay output 5 mA 5 V DC at state 0) relay output
Output overvoltage protection	38...40 V
Maximum tungsten load	<8 W solid state
Response time	300 µs at state 0 relay 300 µs at state 1 relay 5 µs at state 0 solid state 5 µs at state 1 solid state
Minimum switchable load	0.1 mA
Contact bounce time	<= 1 ms relay
Maximum leakage current	0.1 mA at state 0 solid state
Drop-out voltage	1 V at state 1
Insulation between channel and internal logic	1500 Vrms for 1 minute relay output 500 Vrms for 1 minute input circuit 500 Vrms for 1 minute solid state output
Insulation between channels	None
Contact resistance	30 mOhm
Electrical durability	500000 cycles AC-1 500 VA relay output 500000 cycles AC-14 250 VA relay output 500000 cycles AC-15 200 VA relay output 500000 cycles DC-1 60 W relay output 500000 cycles DC-13 30 W relay output
Supply circuit type	DC
[Us] rated supply voltage	24 V
Supply voltage limits	20.4…26.2 V
Input current	700 mA 26.2 V supply circuit
Inrush current	1 A solid state output 50 A supply circuit
Power Consumption in W	19 W
Maximum Number of I/O Expansion Module	7
I/O expansion capacity	132 screw terminal discrete I/O 188 spring terminal discrete I/O 244 HE10 connector discrete I/O 7 x 8I or 7 x 2I or 7 x (4I/2O) screw terminal analogue I/O
Insulation resistance	>= 10 MOhm between I/O and earth terminals >= 10 MOhm between power supply and earth
I/O connection	Removable screw terminal block

Number of common point	1 relay output 1 NO) 1 relay output 2 NO) 1 relay output 3 NO) 1 input 1 solid state output
Counting input number	2
Counting capacity	32 bits
Counting frequency	5000 Hz 20000 Hz
Pulse generator number	2
Pulse generator frequency	7 kHz
Pulse generator function	RPLS pulse generator output RPWM pulse width modulation
Marking	CE
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (panel with fixing kit) By screws (solid plate with fixing kit)
Status LED	1 LED per channel (Green) I/O 1 LED (Green) 10T 1 LED (Green) PWR 1 LED (Yellow) 100T 1 LED (Yellow) STAT
Product Weight	0.408 lb(US) (0.185 kg)

Environment

IP Degree of Protection	IP20
Immunity to microbreaks	10 ms supply circuit
Dielectric strength	500 V between I/O and earth terminals 500 V between power supply and earth
Standards	CSA CSA C22.2 No 213 Class I Division 2 Group B CSA C22.2 No 213 Class I Division 2 Group A UL 508 CSA C22.2 No 213 Class I Division 2 Group C EN 61131-2 CSA C22.2 No 213 Class I Division 2 Group D IEC 61131-2
Product Certifications	cULus
Ambient Air Temperature for Operation	32…131 °F (0…55 °C)
Ambient Air Temperature for Storage	-13…158 °F (-25…70 °C)
Relative Humidity	30…95 % without condensation
Pollution degree	2 EN 60664 2 IEC 60664
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0…9842.5 ft (0…3000 m)
Vibration resistance	0.075 mm 10…57 Hz 35 mm symmetrical DIN rail 1 gn 57…150 Hz 35 mm symmetrical DIN rail
Shock resistance	15 gn 11 ms EN 61131 15 gn 11 ms IEC 61131
Resistance to electrostatic discharge	4 kV in contact IEC 61000-4-2 8 kV in air EN 61000-4-2 8 kV in air IEC 61000-4-2 4 kV in contact EN 61000-4-2

Resistance to radiated fields	9.1 V/m (10 V/m) 80000000…2000000000 Hz EN 61000-4-3 9.1 V/m (10 V/m) 80000000…2000000000 Hz IEC 61000-4-3
Resistance to fast transients	1 kV IEC 61000-4-4 24 V solid state I/O) 2 kV IEC 61000-4-4 24 V supply)

Ordering and shipping details

Category	US1PC1218217
Discount Schedule	PC12
GTIN	3595863823790
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.0 in (7.5 cm)
Package 1 Width	4.1 in (10.5 cm)
Package 1 Length	4.9 in (12.5 cm)
Package weight(Lbs)	11.005 oz (312.0 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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
PVC free	Yes

Use Longer

Lifetime extension

Repair	No

Use Again

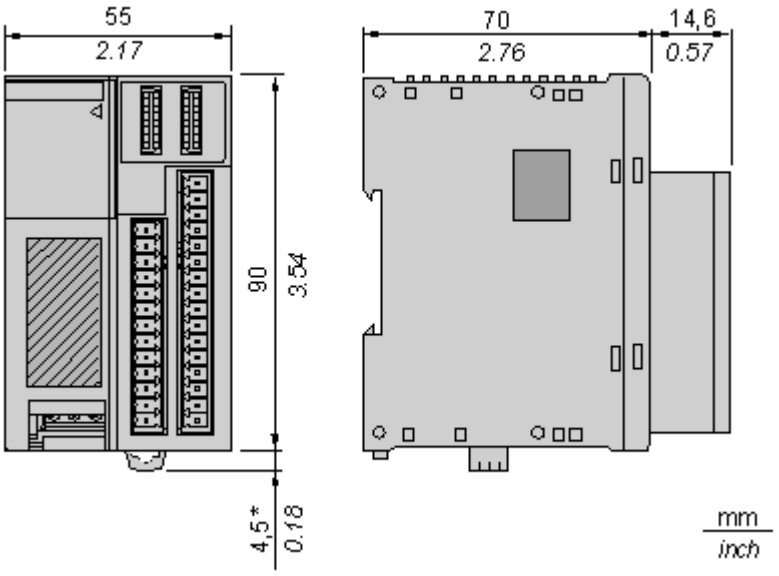
Repack and remanufacture

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Network Interface Module

Dimensions

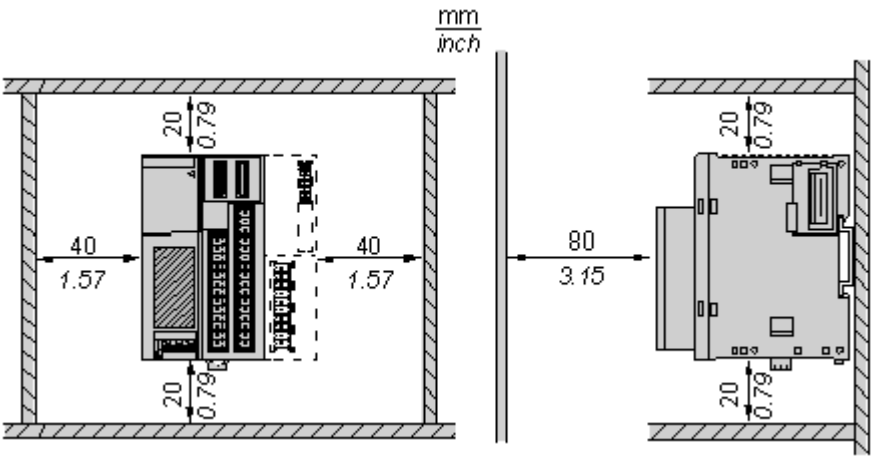


NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

Mounting and Clearance

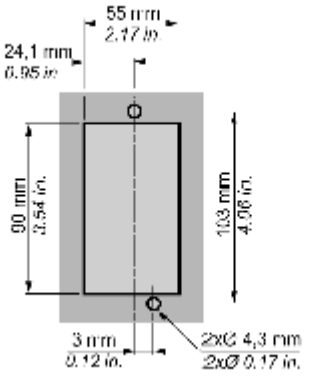
Mounting an Island on a Panel or in a Cabinet

Spacing Requirements



Panel Mounting

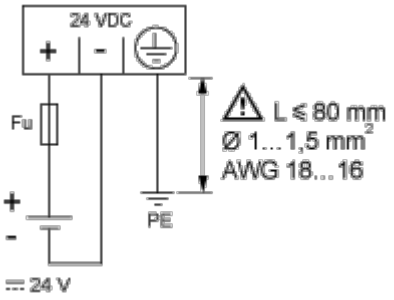
Position of the Mounting Holes for the Network Interface Module



Connections and Schema

24 Vdc Power Supply

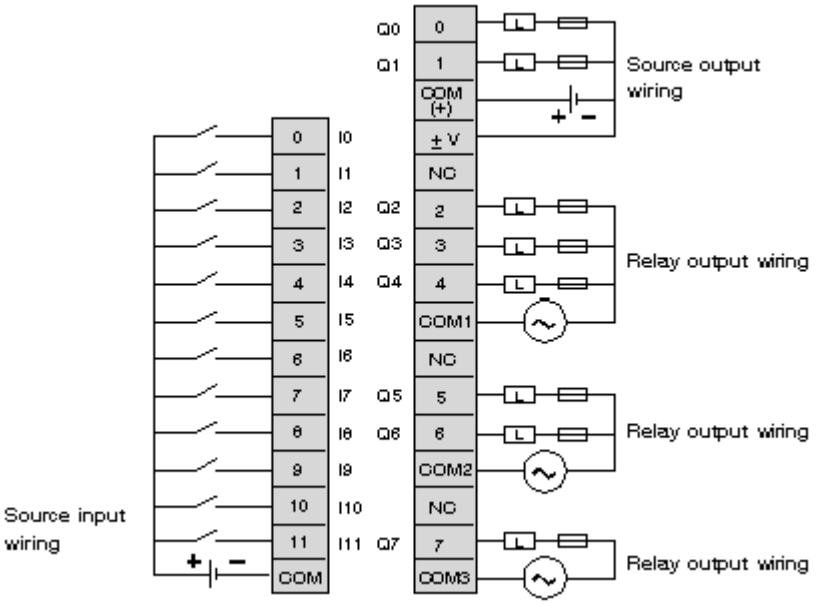
Wiring Diagram



Fu 2 A fast-blow fuse ABE7FU200

Network Interface Module

Wiring Diagram



- Output points 0 and 1 are source transistor outputs, all other output points are relay.
- The COM terminals are **not** connected together internally.
- Connect an appropriate fuse for the load.