

Product datasheet

Specifications



multifunction input module - Modicon Quantum - 32 I - DCF77

140ERT85410C

⚠ Discontinued on: 01 Nov 2020

⚠ Discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Multifunction input module
Number of terminals	40

Complementary

Function of module	Status logging counting 500 Hz Time and date stamped event logging Status monitoring on discrete inputs
Time synchronisation protocol	DCF77
Product compatibility	Concept Unity Pro
Group of channels	2 groups of 16 inputs for process input
Discrete input number	1 discrete input(s) at 24 V for clock signal input 32 discrete input(s) at 24...125 V for process input
Switching voltage	125 V at 1 mA for process input 24 V at 6 mA for process input 48 V at 2.5 mA for process input 60 V at 2.5 mA for process input
Maximum power consumption in W	7.5 W for process input
Insulation	By optocoupler for clock signal input
Insulation between group of channels	By optocoupler
Anti bounce filtering	Configurable from 0 to 255 ms
Input state	Inversion configurable
Acquisition time	1 ms for clock signal input
Input current	5 mA for clock signal input
Electrical connection	Cable - shielded cable <600 m for process input Cable - unshielded cable <400 m for process input
Connections - terminals	Screw terminal block
Local signalling	1 LED (green) for communication on the bus (Active) 1 LED (green) for self test OK, module ready (R) 1 LED (red) for fault (F) 32 LEDs for status of inputs (1 to 32)
Current consumption	0.07 mA at 24 V DC 140XCP90000 module 3 mA at 24...125 V DC external power supply per group of channel 300 mA at 5 V DC bus
Module format	Standard
Net weight	0.45 kg

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Environment

Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m
Protective treatment	Conformal coating Humiseal 1A33 TC
Standards	HazLoc UL 508
Product certifications	C-Tick Merchant Navy LR UL CSA Class 1 Division 2 GOST

Contractual warranty

Warranty (in months)	18
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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 >](#)

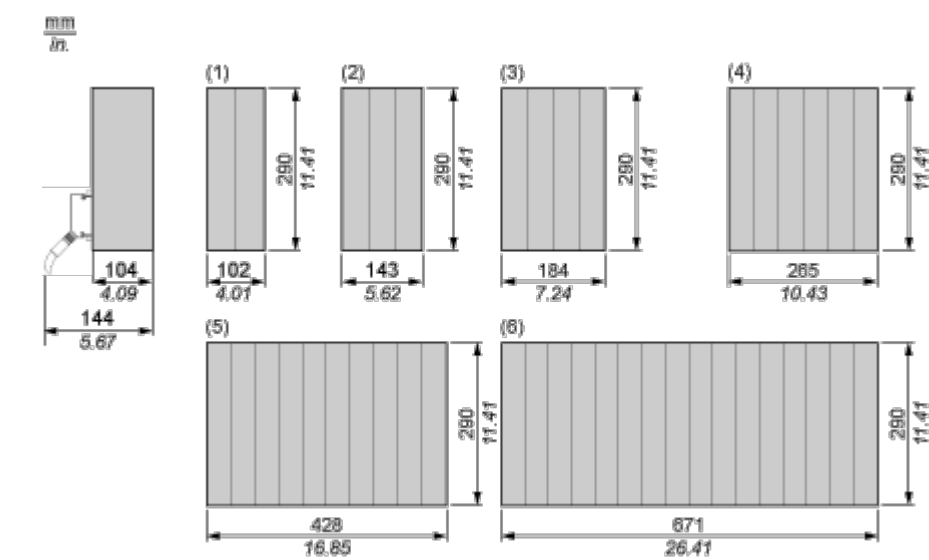
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

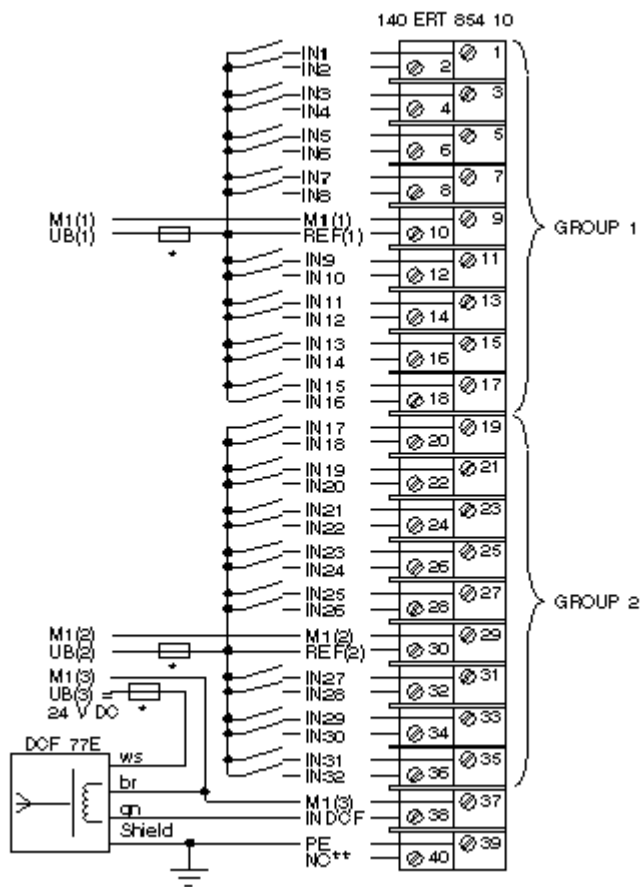


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

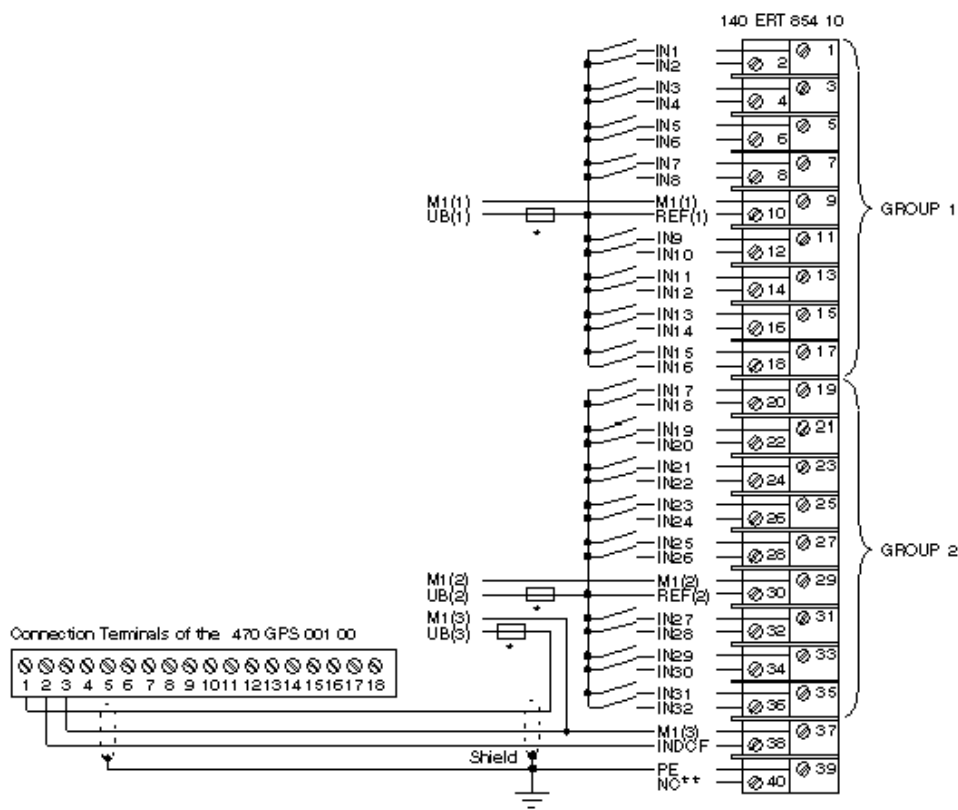
Multifunction Input Module

Connecting the DCF77E Time Receiver



- M1(1), M1(2), M1(3) : 0 VDC
- * UB(1), UB(2):24 ... 125 VDC, UB(3): 24 VDC, separate protection recommended
- ** not connected, suitable for support clamp for UB(3)

Connecting the GPS001 Time Receiver



- M1(1), M1(2), M1(3) : 0 VDC
- * UB(1), UB(2):24 ... 125 VDC, UB(3): 24 VDC, separate protection recommended
 - ** not connected, suitable for support clamp for UB(3)