



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 Status monitoring on discrete inputs Time and date stamped event logging
Time synchronisation protocol	DCF77 IRIG-B
Product compatibility	Unity Pro V7.0 Unity Pro V6.0 - without IRIG-B or TXSNTP100 function Unity Pro V5.0 - without IRIG-B or TXSNTP100 function Unity Pro V4.1 - without IRIG-B or TXSNTP100 function
Group of channels	2 groups of 16 inputs for process input
Discrete input number	32 discrete input(s) at 24...125 V for process input 1 discrete input(s) at 24 V for clock signal input
Switching voltage	60 V at 2.5 mA for process input 48 V at 2.5 mA for process input 24 V at 6 mA for process input 125 V at 1 mA for process input
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	Unshielded cable cable, cable length: <= 400 m for process input Shielded cable cable, cable length: <= 600 m for process input
Connections - terminals	Screw terminal block
Local signalling	32 LEDs for status of inputs (1 to 32) 1 LED red for fault (F) 1 LED green for self test OK, module ready (R) 1 LED green for communication on the bus (Active)
Current consumption	20 mA at 24...125 V DC external power supply per group of channel 300 mA at 5 V DC bus
Module format	Standard
Product weight	0.45 kg

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.

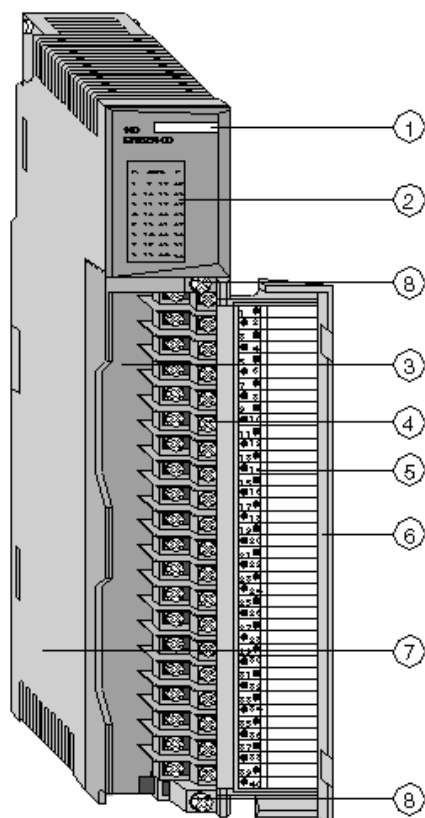
Environment

Resistance to electrostatic discharge	8 kV on air conforming to IEC 801-2 4 kV contact conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m at 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	TC
Standards	HazLoc UL 508
Product certifications	CSA Class 1 Division 2 C-Tick GOST LR UL Merchant Navy

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1208 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Presentation

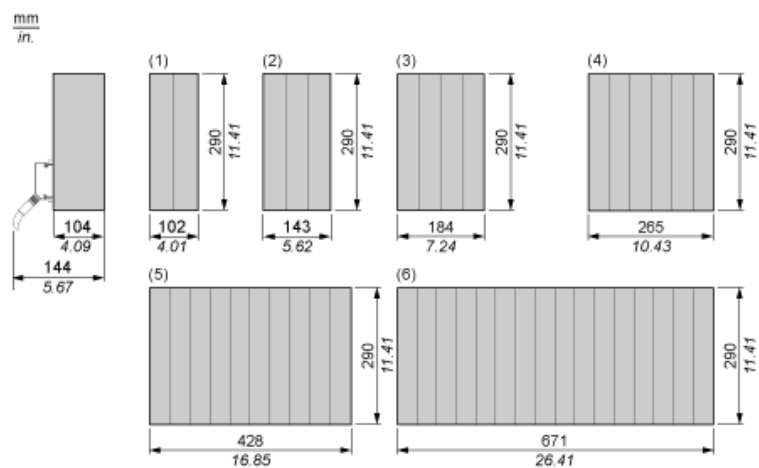


Location
of
Operating
Elements

- 1 Color Code
- 2 Display field (LEDs)
- 3 Terminal Block
- 4 Connection terminals
- 5 Sliding Label (inside)
- 6 Cover for the terminal blocks
- 7 Standard housing
- 8 Screws for terminal block

Racks for Modules Mounting

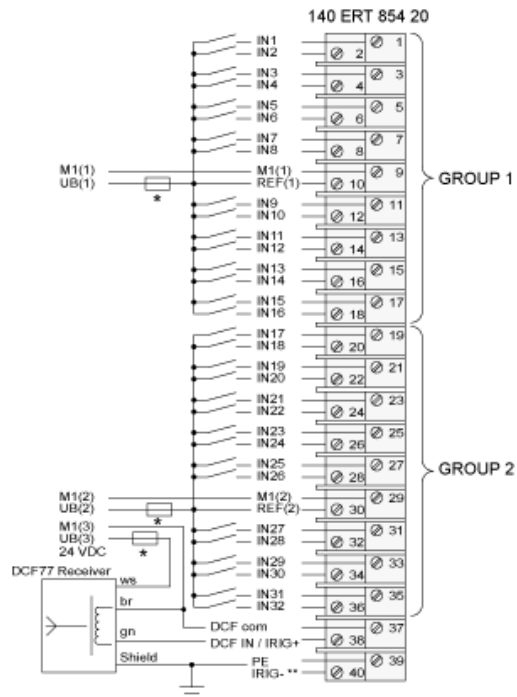
Dimensions of Modules and Racks



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

Multifunction Input Module

Connecting the DCF77E Time Receiver

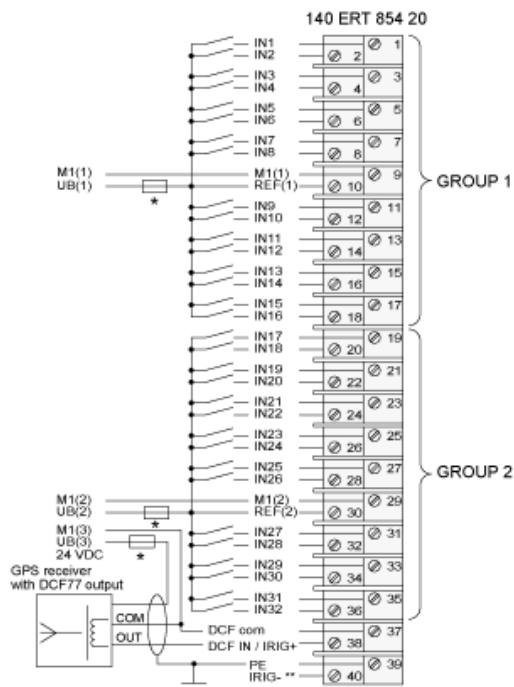


M1(1), M1(2), M1(3) : 0 VDC

* UB(1), UB(2):24...125 VDC, UB(3): 24 VDC separate protection recommended

** not connected

Connecting the DCF77 of GPS Time Receiver

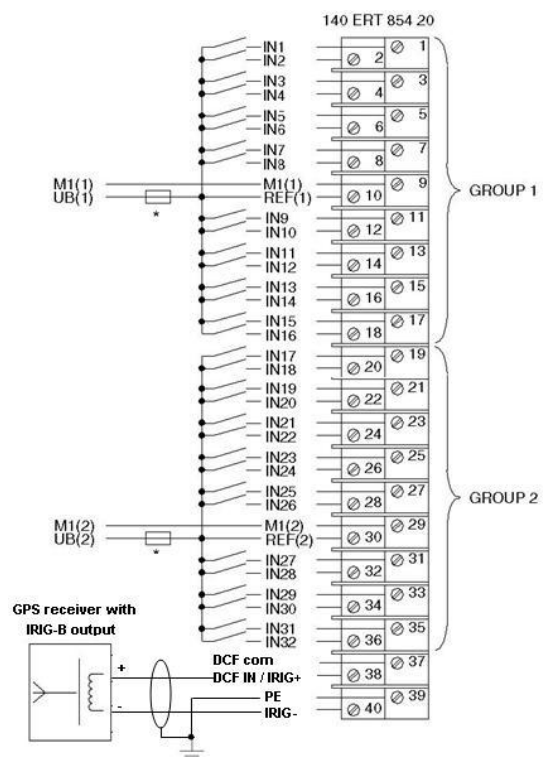


M1(1), M1(2), M1(3) : 0 VDC

* UB(1), UB(2):24...125 VDC, UB(3): 24 VDC separate protection recommended

** not connected

Connecting the IRIG-B of GPS Time Receiver



M1(1), M1(2) : 0 VDC

* UB(1), UB(2):24...125 VDC separate protection recommended