



### 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<br>Status monitoring on discrete inputs<br>Time and date stamped event logging                                                            |
| Time synchronisation protocol        | DCF77                                                                                                                                                                    |
| Product compatibility                | Unity Pro<br>Concept                                                                                                                                                     |
| 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<br>1 discrete input(s) at 24 V for clock signal input                                                               |
| Switching voltage                    | 60 V at 2.5 mA for process input<br>48 V at 2.5 mA for process input<br>24 V at 6 mA for process input<br>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<br>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)<br>1 LED red for fault (F)<br>1 LED green for self test OK, module ready (R)<br>1 LED green for communication on the bus (Active) |
| Current consumption                  | 300 mA at 5 V DC bus<br>3 mA at 24...125 V DC external power supply per group of channel<br>0.07 mA at 24 V DC 140XCP90000 module                                        |
| 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<br>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<br>UL 508                                                            |
| Product certifications                | CSA Class 1 Division 2<br>C-Tick<br>GOST<br>LR<br>UL<br>Merchant Navy       |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0901 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

Racks for Modules Mounting

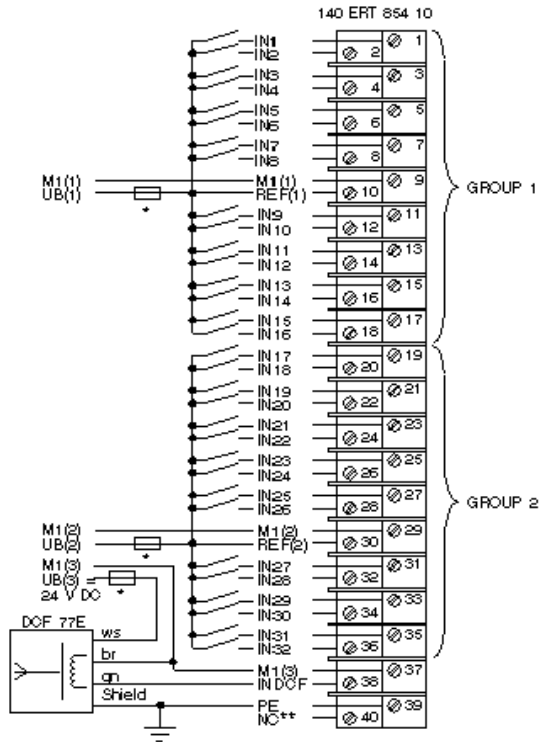
Dimensions of Modules and Racks



- (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

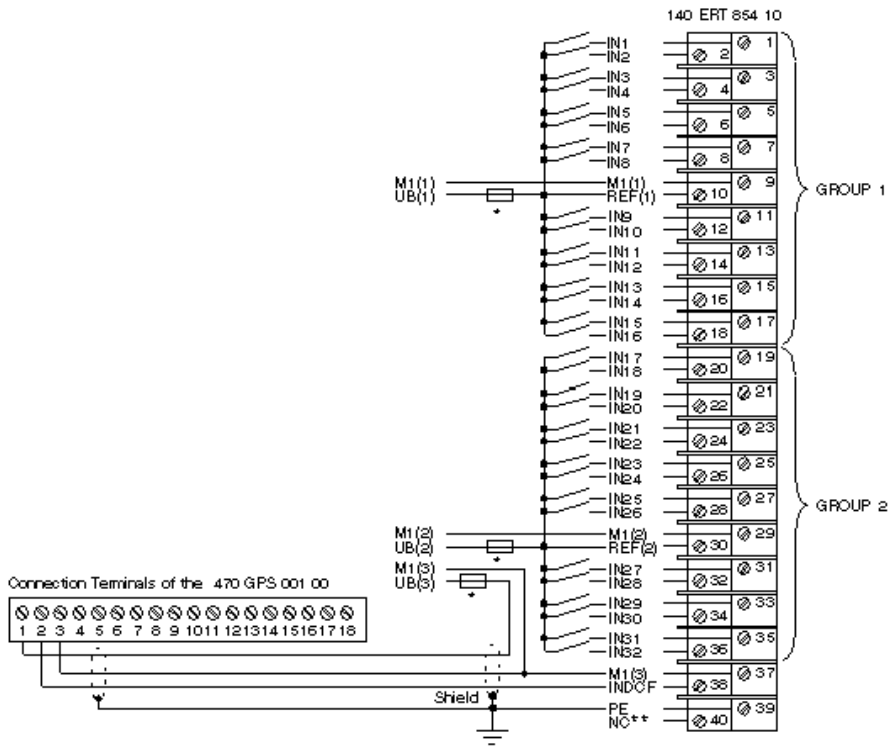


M1(1), M1(2), M1(3) : 0 VDC

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

\*\* not connected, 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)