



DIT

Highly reliable and real-time Door Interlocking Terminal solutions with an integrated IR Switch.



DIT



INTEGRATED
IR SWITCH



IP65 RATED
HOUSING



TRI COLOR
LED



RS-485
COMMUNICATION



ALARM MONITORING
(OPTIONAL)

Key Features

► Door Interlocking Terminal

Spectra's Door Interlocking System can control up to 8 doors with one master controller. The interlocking terminal is programmable on the site and it has dedicated ports for door position sensor and emergency switches with an inbuilt IR sensor.

► Programming and Communication Interface

The Door Interlocking System has an RS485 interface for configuring the parameters of the controller, along with a dedicated RS485 channel

► User Configurable Door Matrix

Users can choose the mode of operation as per their requirements. Spectra's DITs offer you the flexibility to select your preferred combinations of doors to lock or unlock and have multiple interlock logics for the same door. Users can decide "door lock behavior" based on the statuses of the doors nearby.

► Thoughtful Design for your Custom Needs

A large number of configuration options like door type, lock open time, max. door open time, etc. Define triggers and actions based on field events (unlock all doors, start AHU, start/switch lights, start hooter, and so on).

► Tricolor LED for Door Status Monitoring

Separate LEDs for different door event statuses like emergency open, waiting, forcefully open, door released, door locked, etc. Configure events like door open, force open, emergency, door open for too long, multiple doors open, fire, etc.

► Door Interlocking Terminal with Maximum Flexibility

Say goodbye to cables with this standalone master-slave communication interlocking system which has inbuilt IR sensor for contactless switching operations. (Only one RS 485 cable is to be used to connect master and slave controller.) Each node has individual IOs for door position status, access switches, fire signal, hooters, and more.

HARDWARE

Processor	64Mhz MCU, 128KB Flash
Communication	RS485
Back Plate	Durable stainless steel plate
Detection range	0.1 ~ 10cm
Sensor	Proximity IR
Door Interface	1 Egress Switch & 1 DOTL per door
LED	Red, Green and White LED indicators per door
Relay Interface	Relay outputs for lock: 3A @12V DC
Digital Inputs	2 general purpose optically isolated digital inputs
Digital Output	1 general purpose relay output per door
Watchdog	Inbuilt watchdog supervisor
Power	Less than 5 watt
Operating Temp.	-10 to 50°C
Housing	ABS + PC , Flame retardent
Supply Voltage	12V DC , typical 100mA
Weight	100 gram (Approx.)
Dimension (mm)	L 92 x W 92 X D 25.5

ORDERING CODES

DIT-M	Door Interlocking Master Terminal
DIT-S	Door Interlocking Slave Terminal

Technical specifications may be changed from time to time without any prior notice due to continuous enhancements in the product.

Application Areas (Pharmaceutical Industry)



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