**IT40S / IT50S / IT60S Series**

Open Network Capable Tower Light

- Energy saving, maintenance free LED lights
- Direct Ethernet and CC-Link control saves wiring and cost
- Bright and even illumination thanks to M-System’s original reflection system
- Number and color of LED modules can be freely combined
- IP 65

**WIRE SAVER TOWER LIGHT**

The IT40S, IT50S and IT60S Series are preassembled tower lights of 40-mm, 50-mm and 60-mm diameter LED modules. They feature direct control by PLC via Ethernet Modbus/TCP (model: ITxxSRE) or CC-Link (model: ITxxSRC).

In combination with M-System’s remote I/O modules, local discrete signals can trigger the light modules connected with single network cables via a remote PLC, saving a great part of parallel wiring from sensor devices to the PLC’s input cards, and from the PLC’s output cards to the lights.

Contact input type (ITxxSA1) without network connection is also available for local control.

**TRIPLE-REFLECTION SYSTEM**

M-System’s original triple-reflection design prevents the LED lights from wasteful diffusion and ensures effective and even lighting in obliquely downward directions.

**SETTING PANEL & STATUS INDICATOR LED**

DIP switches on the side are used to select blinking frequency (2 Hz or 10 Hz), alert sound (buzz) ON/OFF frequency, loudness level and to specify either the lights should be turned off or maintained in case of communication failure.

Power and network status indicator LEDs are also provided on the side.

**NETWORK CONNECTION**

RJ-45 connector for Ethernet or a separable tension-clamp terminal block for CC-Link is provided at the bottom of the tower for easy wiring.

**FIVE-LAYER, FIVE-COLOR LED MODULES IN FREE COMBINATION**

Number of LED module layers can be specified from one to five when ordering. Five colors (red, amber, green, blue and white) can be freely combined for each module.

For M-System product information and downloadable data sheets, visit M-System web site at: www.m-system.co.jp.
Application Example with Network Capable Tower Lights

The network capable tower lights can save a great part of parallel wiring between sensors, PLC and lights.

**SELECTION GUIDE**

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</table>

**GENERAL SPECIFICATIONS**

- **Degree of protection**: IP 65, vertical mounting only (except the bottom connectors)
- **Connection**
  - Power input: UL 1007 AWG 20
  - UL 1007 AWG 22 (ITxxSA1)
  - RJ45 connector (ITxxSRE)
  - Separable tension-clamp terminal (ITxxSRC)
- **Contact input**
- **Network**
- **Housing material**
  - Tower: Flame-resistant resin (white)
  - Lens: Flame-resistant resin (transparent)
- **DIP SW**
  - Light's blinking frequency, buzzing ON/ OFF frequency and volume level, output at communication failure
- **LEDs**
  - Red, Amber, Green, Blue, White LED, continuous or intermittent (approx. 2 Hz or 10 Hz)
- **Status indicators**
  - Power, Run, Link, Link100, COL (ITxxSRE)
  - Power, Run, Error, SD, RD (ITxxSRC)
- **Buzzing**
  - Approx. 3.3 kHz, continuous or intermittent (approx. 2 Hz or 10 Hz)
- **Network**
  - Modbus/TCP Ethernet: IEEE 802.3u
  - CC-Link: Ver. 1.10, Remote I/O Station
  - Remote I/O

**INSTALLATION**

- **Power input**
  - AC: 100-240 Vac (not available for ITxxSRE)
  - DC: 24 Vdc ±10% (ripple 10% p-p max.)
- **Operating temp**
  - -10 to +55 °C (14 to 131 °F)
- **Operating humidity**
  - 30 to 90% RH (non-condensing)
- **Atmosphere**
  - No corrosive gas
- **Mounting**
  - Surface (vertical direction only)
- **Mounting pole**
  - Pole with L-shape bracket or with mounting base (model: ITPL)

**PERFORMANCE**

- **Insulation resistance**: 100 MΩ or more with 500 Vdc
- **Dielectric strength**: 1500 Vac @ 1 minute (network to power to FE1; Ethernet/CC-Link)
  - 1500 Vac @ 1 minute (input to power to FE1; contact input with AC power)
- **CE conformity**
  - Low Voltage Directive (2006/95/EC)
- **Terminal access protection**
  - VDE 0660-514 (finger protection)

Your local representative: