

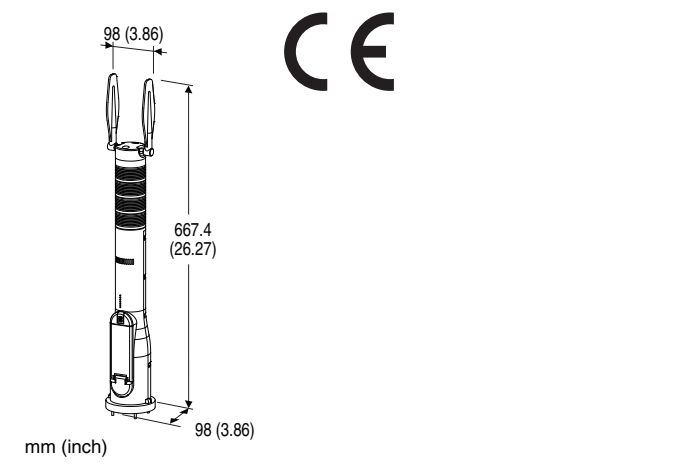
**Tower Light Series**

**ETHERNET TOWER LIGHT**

(60 mm dia., 4 layers)

**Functions & Features**

- Lighting, blinking and buzzing available with PLC or PC via Modbus/TCP.
- Bi-color lighting available in fourth layer
- Separable tension clamp terminal



**MODEL: IT60RE-4[1][2][3][4][5]D[6]-[7]**

**ORDERING INFORMATION**

- Code number: IT60RE-4[1][2][3][4][5]D[6]-[7]
- Specify a code from below for each [1] through [7].  
(e.g. IT60RE-4RYGBWD1-M2)

**LAMP LAYERS**

4: 4 layers

**[1] LAMP 1 COLOR**

(1st layer from the top)

- R: Red
- Y: Amber
- G: Green
- B: Blue
- W: White

**[2] LAMP 2 COLOR**

(2nd layer from the top)

- R: Red
- Y: Amber
- G: Green
- B: Blue
- W: White

**[3] LAMP 3 COLOR**

(3rd layer from the top)

- R: Red
- Y: Amber
- G: Green
- B: Blue
- W: White

**[4] LAMP 4 COLOR**

(4th layer from the top)

- R: Red
- Y: Amber
- G: Green
- B: Blue
- W: White

**[5] LAMP 5 COLOR**

- R: Red
- Y: Amber
- G: Green
- B: Blue
- W: White
- N: None

**MOUNTING**

D: Direct mounting

**[6] DESIGN TYPE**

- 1: Type 1
- 2: Type 2 (with dummy antennae)  
(refer to outline dimensions)

**[7] POWER INPUT**

**AC Power**

M2: 100 - 240 V AC (Operational voltage range 85 - 264 V, 47 - 66 Hz)

**DC Power**

R: 24 V DC  
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)



## RELATED PRODUCTS

- PC configurator software (model: ITCFG)

Functions are configurable using the PC Configurator Software.

Downloadable at M-System's web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

## GENERAL SPECIFICATIONS

**Degree of protection:** IP 65, vertical mounting only (bottom connectors excluded)

### Connection

**Power:** Separable tension clamp terminal

**Applicable wire size:** 0.2 to 1.5 mm<sup>2</sup>, stripped length 10 mm

**Network:** RJ-45 Modular Jack

### Recommended solderless terminal:

AI0,5-10WH 0.5mm<sup>2</sup> (Phoenix Contact)

AI0,75-10GY 0.75mm<sup>2</sup> (Phoenix Contact)

**Housing material:** Flame-resistant resin (white)

**Lens:** Flame-resistant resin (transparent)

**Isolation:** Network to power input to FE1 (Functional Earth)

**DIP SW Setting:** Frequency of lamp blinking and buzzing discontinuance, buzzing volume level and output at connection failed. (refer to the instruction manual)

**Lamp:** Red, amber, green, blue and white LEDs on/blinking (approx. 2 Hz, 10 Hz)

**Indicator LEDs:** Power, Run, Link, Link100, COL (5 LEDs) indicate the module's operating conditions. (Refer to the instruction manual)

**Buzzing:** Approx. 3.3 kHz

**Interval:** continuous/intermittent (approx. 2 Hz, 10 Hz)

## COMMUNICATION

**Communication Standard:** IEEE 802.3u

**Transmission:** 10BASE-T, 100BASE-TX

**Baud rate:** 10/100 Mbps (Auto Negotiation function)

**Protocol:** Modbus/TCP

**Data:** RTU (Binary)

**Max. number of socket connections:** 2

**Transmission media:** 10BASE-T (STP, Category 5) 100BASE-TX (STP, Category 5e)

**Max. length of fieldbus segment:** 100 meters

**IP address:** 192.168.0.1 (factory setting);

Selectable with PC Configurator Software

**Port No.:** 502

**Ethernet indicator LED:** Link, Link100, COL

## INSTALLATION

### Power consumption

• **AC:** Approx. 6 VA at 100 V

Approx. 8 VA at 200 V

Approx. 9 VA at 240 V

• **DC:** Approx. 3 W

**Operating temperature:** -10 to +55°C (14 to 131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Atmosphere:** No corrosive gas

**Mounting:** Direct mounting

**Mounting direction:** Vertical

**Weight:** 1.4 kg (3.1 lb)

## PERFORMANCE

**Insulation resistance:**  $\geq 100 \text{ M}\Omega$  with 500 V DC

**Dielectric strength:** 1500 V AC @ 1 minute

(network to power to FE1)

## STANDARDS & APPROVALS

Refer to the manuals to comply with the standards.

### CE conformity:

EMC Directive (2004/108/EC)

EN 60947-5-1: 2004/A1: 2009

Low Voltage Directive (2006/95/EC)

EN 60947-5-1: 2004/A1: 2009

24 V DC power

Installation Category III

Pollution Degree 3

100 - 240 V AC power

Installation Category II

Pollution Degree 2

Input to power: Reinforced insulation (300 V)

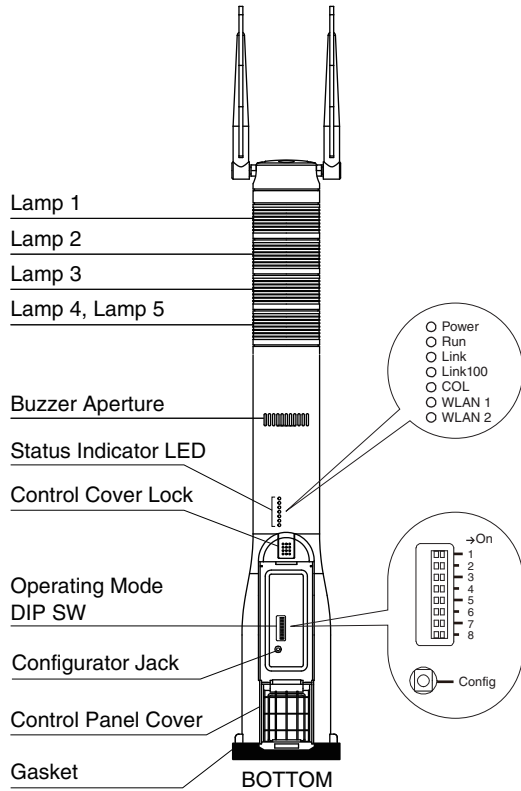
**Protection against access to the terminal blocks:**

Finger protection (VDE 0660-514)

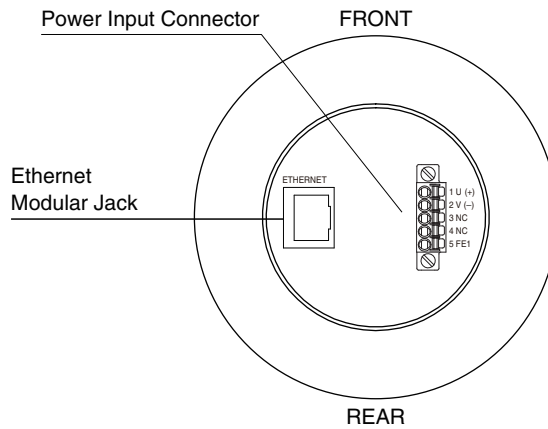


## EXTERNAL VIEW

### ■ FRONT VIEW



### ■ BOTTOM VIEW



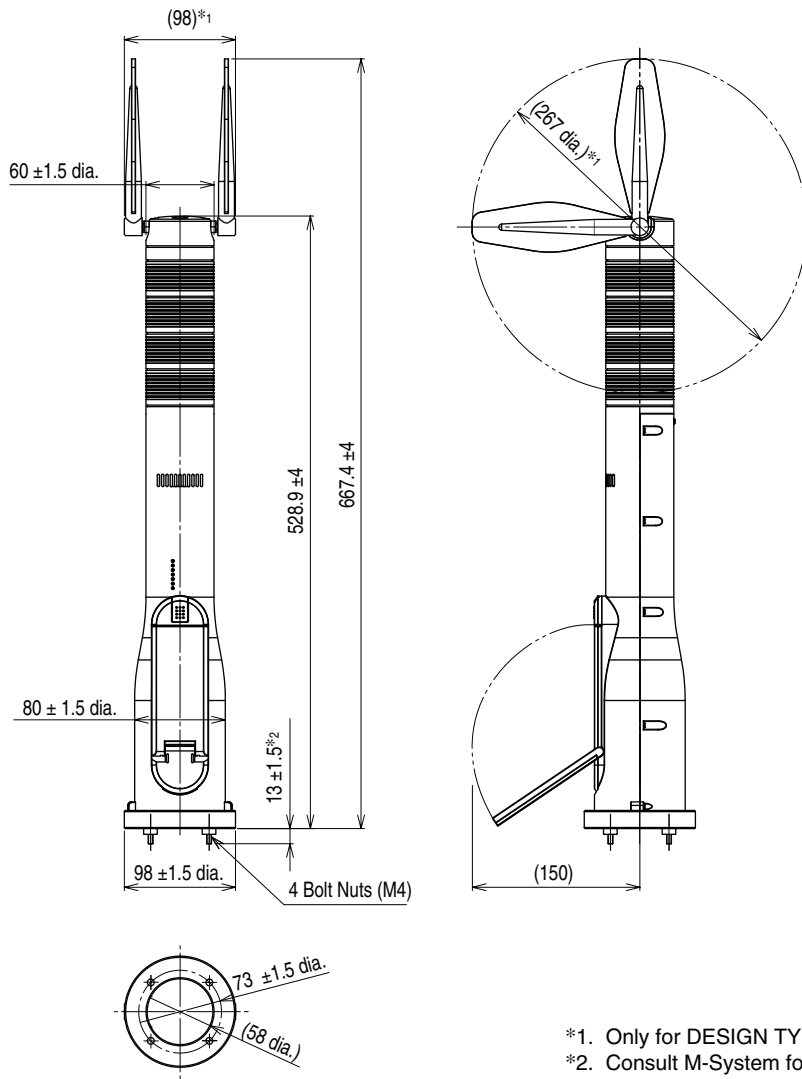
## TERMINAL ASSIGNMENTS

### ■ POWER CONNECTOR



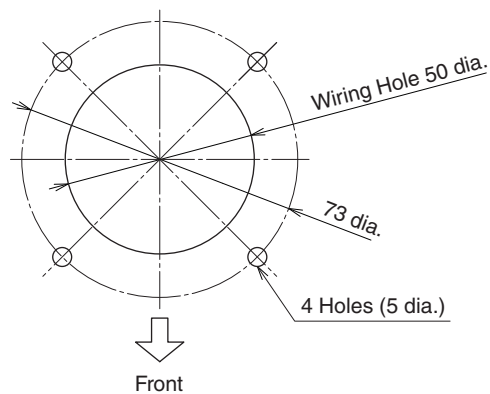
1	1. U (+)	POWER INPUT (+)
2	2. V (-)	POWER INPUT (-)
3	3. NC	Unused
4	4. NC	Unused
5	5. FE1	FUNCTIONAL EARTH

**DIMENSIONS unit: mm**

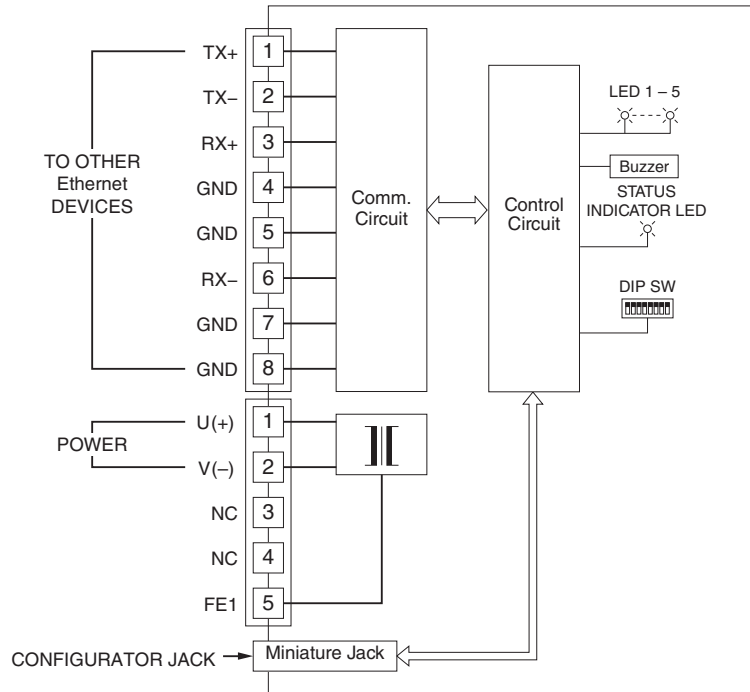


\*1. Only for DESIGN TYPE option code 2.  
 \*2. Consult M-System for other bolt length.

**MOUNTING REQUIREMENTS unit: mm**



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.

