TL70

70 mm Modular Tower Lights

- Modular IP65 design gives the user flexibility to customize functions and operations, and install in many environments
- Wireless options facilitate installation and enable remote monitoring and control
- Bright, uniform color segments appear gray when off to eliminate false indication
- Top-mounted audible modules from 75 to 101 dB, including multi-tone and programmable audible models, allow for custom alerts or announcement

BANNER®

A Better Design by Banner

The TL70 tower light is another achievement in rethinking and designing a better indicator.

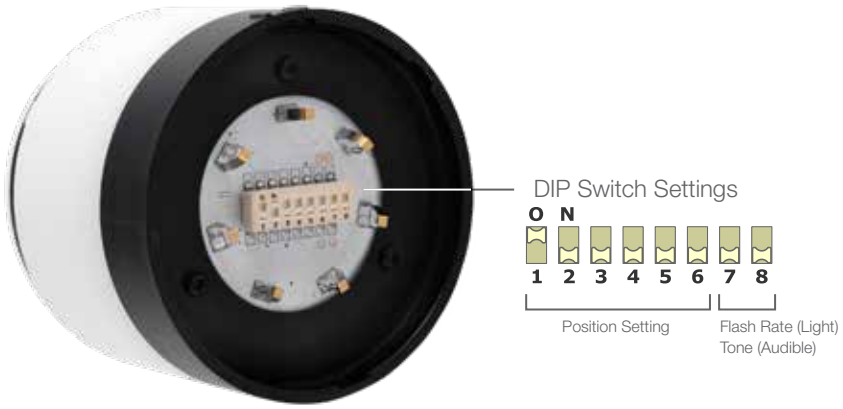
The Easiest Tower Light to Install

The TL70 tower light design is user friendly with just a few easy steps to complete installation.

1. Configure Modules

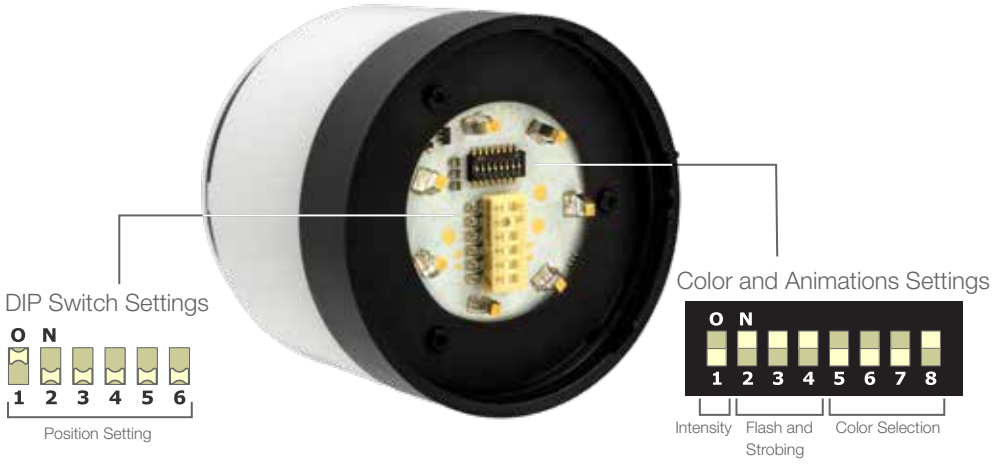
Standard Module Settings

- Assign module position (switches 1-6)
- Assign flash rate or audible tone (switches 7-8)



RGB14 Module Settings

- Assign module position (white switches 1-6)
- Assign color choices, intensity and animation (black switches 1-8)



2. Assemble

- Align segment markings
- Press together
- Twist to lock

3. Apply Power

- M12 QD
- Flying lead cable
- Terminals

Preassembled TL70 Modular Tower Lights

Housing: **TL70**

Power: **Blank** = Standard; **Z** = AC

Color/Position (1 2 3 4 5 6): **G** **Y** **R** _ _ _

- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **O** = Orange
- **Blank** = No Color

Audible*: **Blank** = None; **A** = Audible (92 dB); **AL** = Louder Audible (85 -101 dB); **ALM** = Multi-tone Audible (75 - 101 dB); **AP** = Programmable Audible

Housing Color: **Blank** = Black; **C** = Gray

Connection: **Q**

- **Blank** = 2 m Integral Cable
- **T** = Terminal Wired
- **Q** = Euro Integral QD
- **QP** = Euro Pigtail QD

QD models require mating cordset

* For audible only, leave colors blank

Build Your Own TL70 Modular Tower Lights

Standard Base

Housing: **B-TL70** – Connection: **Q5** – Housing Color: ☐

Base Segment

5 = 2 m, 5-wire Integral Cable
8 = 2 m, 8-wire Integral Cable
T = Terminal
Q5 = 5-pin Euro Integral QD (1-4 modules)
Q8 = 8-pin Euro Integral QD (5+6 modules)
QP5 = 5-pin Euro Pigtail (1-4 modules)
QP8 = 8-pin Euro Pigtail (5+6 modules)

Blank = Black
C = Gray

AC Base

Housing: **B-TL70Z** – Connection: **Q** – Housing Color: ☐

Base Segment

5 = 2 m, 5-wire Integral Cable (1-4 modules)
7 = 2 m, 7-wire Integral Cable (5+6 modules)
Q = 1/2-20/Micro-style Integral QD (1-4 modules)

QD models require mating cordset

Blank = Black
C = Gray

Single Color Segments

Housing: **SG-TL70** – Color: **R** – Housing Color: ☐

Light Segment

G = Green
Y = Yellow
R = Red
B = Blue
W = White
O = Orange
RGB14 = 14 color options*

Blank = Black
C = Gray

* Green, Yellow, Red, Blue, White, Cyan, Magenta, Orange, Amber, Lime Green, Spring Green, Sky Blue, Violet and Rose

Audible Segments

Housing: **SG-TL70** – Alarm: **A** – Housing Color: ☐

Audible Segment

A = Audible (92 dB)
AL = Louder Audible (85 -101 dB)
ALM = Multi-tone Audible (75 - 101 dB)
AP = Programmable Audible

Blank = Black
C = Gray

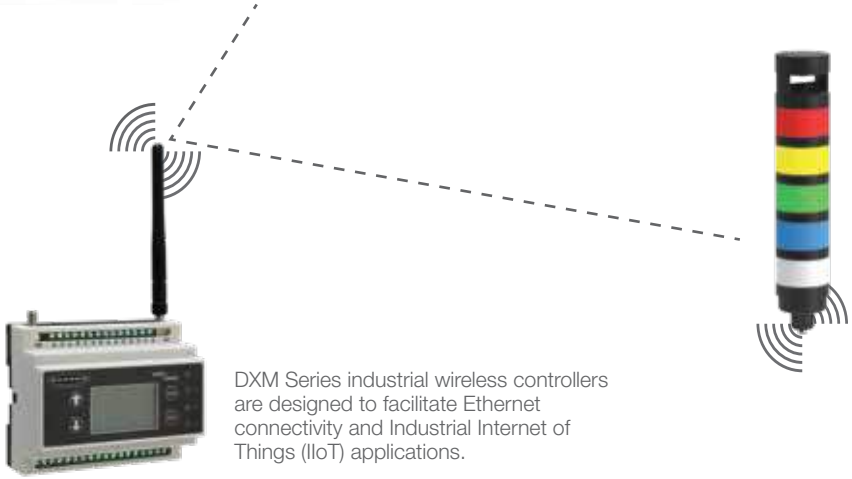
Multicolor Segments

Housing: **SG-TL70** – Color: 1 **G** 2 **Y** 3 **R** – Housing Color: ☐

Light Segment

G = Green
Y = Yellow
R = Red
B = Blue
W = White
O = Orange

Blank = Black
C = Gray



DXM Series industrial wireless controllers are designed to facilitate Ethernet connectivity and Industrial Internet of Things (IIoT) applications.

Why Wireless?

Integrate diverse machines/processes for common data collection (and ultimately process improvement).

- Quickly unleash IIOT capabilities
- Implement OEE
- Monitor/improve productivity
- Get timely status information and remote notifications of problems
- Simplify installation

Where to Use

- Typical factory environments
- Upgrading older equipment
- Where status information needs to be visible
- Where status information needs to be collected for analysis

Wireless Hardware Options for Remote Monitoring and Control

Easily add wireless communication and networking capabilities to your tower lights by using Banner's Wireless Base or Wireless Communication Segment. The Wireless Base can be configured into preassembled tower lights. The Wireless Communication segment can be ordered separately and easily added to new or existing TL70 Tower Lights with the standard base.

	Segment	Base
Requires Constant Power	–	√
PNP Inputs	√	√
NPN Inputs	√	–
AC Power Capable	√	–
900 MHz and 2.4 GHz	√	√
Event Counting Input	√	√
Bidirectional Communication	√	√
Remote Control of Light Segments	√*	√

* Requires constant power

Wireless Base (see page 7)

The wireless base provides full bidirectional communication plus event counter inputs. It can be configured into preassembled tower lights.

Wireless Communication Segment

This segment adds wireless communication and networking capabilities to any standard TL70 base, without requiring constant power or expensive wiring.

Housing	Radio	Housing Color
SG-TL70	**DXN2**	☐
	DXN2 = Node 2.4 GHz **DXN9** = Node 900 MHz	**Blank** = Black **C** = Gray

Wireless TL70 Modular Tower Light

Preassembled

Color/Position

Housing	Radio	1	2	3	4	5	6	Audible*	Housing Color	Connection
TL70	DXN2	G	Y	R						Q

DXN2 = Node 2.4 GHz
DXN9 = Node 900 MHz
DR2M = MultiHop Data Radio 2.4 GHz
DR9M = MultiHop Data Radio 900 MHz

G = Green
Y = Yellow
R = Red
B = Blue
W = White
O = Orange
Blank = None

Blank = None
A = Audible (92 dB)
AL = Louder Audible (85 -101 dB)
ALM = Multi-tone Audible (75 - 101 dB)
AP = Programmable Audible

* For audible only, leave colors blank

Blank = Black
C = Gray

Blank = 2 m Integral Cable
Q = Euro Integral QD
QP = Euro Pigtail QD

QD models require mating cordset

Build Your Own

Wireless Base

Housing	Radio		Connection	Housing Color
B-TL70	DXN9	–	Q5	
Base Segment				

DXN2 = Node 2.4 GHz
DXN9 = Node 900 MHz
DR2M = MultiHop Data Radio 2.4 GHz
DR9M = MultiHop Data Radio 900 MHz

5 = 2 m, 5-wire Integral Cable
8 = 2 m, 8-wire Integral Cable
Q5 = 5-pin M12/Euro-style Integral QD
Q8 = 8-pin M12/Euro-style Integral QD
QP5 = 150 mm (5.9 in) cable with 5-pin M12/Euro-style QD
QP8 = 150 mm (5.9 in) cable with 8-pin M12/Euro-style QD

Blank = Black
C = Gray

QD models require mating cordset

Single Color Segments

Housing		Color	Housing Color
SG-TL70	–	R	
Light Segment			

G = Green
Y = Yellow
R = Red
B = Blue
W = White
O = Orange
RGB14 = 14 color options*

Blank = Black
C = Gray

* Green, Yellow, Red, Blue, White, Cyan, Magenta, Orange, Amber, Lime Green, Spring Green, Sky Blue, Violet and Rose

Audible Segments

Housing		Alarm	Housing Color
SG-TL70	–	A	
Audible Segment			

A = Audible (92 dB)
AL = Louder Audible (85 -101 dB)
ALM = Multi-tone Audible (75 - 101 dB)
AP = Programmable Audible

Blank = Black
C = Gray

Multicolor Segments

Housing		Color 1	2	3	Housing Color
SG-TL70	–	G	Y	R	
Light Segment					

G = Green
Y = Yellow
R = Red
B = Blue
W = White
O = Orange

Blank = Black
C = Gray

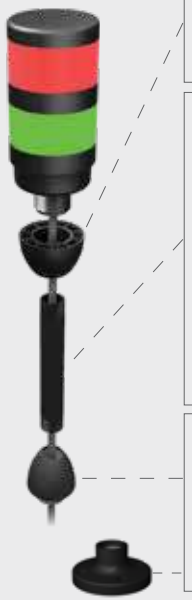
Color Count	AC Tower Height (H)	AC Tower Height with Audible (H)	DC Tower Height (H)	DC Tower Height with Audible (H)
1	155.6 mm	212.3 mm	87.6 mm	144.3 mm
2	205.3 mm	262.0 mm	137.3 mm	194.0 mm
3	255.0 mm	311.7 mm	187.0 mm	243.7 mm
4	304.7 mm	361.4 mm	236.7 mm	293.4 mm
5	354.4 mm	411.1 mm	286.4 mm	343.1 mm
6	404.1 mm	NA	336.1 mm	NA

Order Now

Supply Voltage	12 to 30 V dc
Construction	Bases and Covers: Polycarbonate Light Segment: Polycarbonate
Environmental Rating	IP65
Operating Temperature	–40 to +50 °C (–40 to +122 °F)
Certifications	

Accessories

Elevated Mount System



SA-M30
Black polycarbonate adapter/cover
SA-M30C
Gray polycarbonate adapter/cover

SOP-E12-150A (150 mm)
SOP-E12-300A (300 mm)
SOP-E12-900A (900 mm)
Black anodized aluminum pipe

SOP-E12-150AC (150 mm)
SOP-E12-300AC (300 mm)
SOP-E12-900AC (900 mm)
Clear anodized aluminum pipe

SOP-E12-150SS (150 mm)
SOP-E12-300SS (300 mm)
SOP-E12-900SS (900 mm)
304 stainless steel pipe

SA-E12M30
Black Acetal mounting base
SA-E12M30C
White UHMW mounting base

SA-F12
Black Zinc mounting base

Flush Foldable Bracket

for use with elevated mount systems

SA-FFB12
Black
SA-FFB12C
Gray

Cordsets for AC Models

4-Pin Micro-Style
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQAC2-406RA)

MQAC2-406
2 m (6.5')
MQAC2-415
5 m (15')
MQAC2-430
9 m (30')

5-Pin Micro-Style
Straight connector models

MQAC2-506
2 m (6.5')
MQAC2-515
5 m (15')
MQAC2-530
9 m (30')

Brackets

SMB30MM **SMB30A** **SMBAMS30P**

Cordsets for DC Models

4-Pin M12/Euro-Style
use with 3-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)

MQDC-406
2 m (6.5')
MQDC-415
5 m (15')
MQDC-430
9 m (30')

5-Pin M12/Euro-Style
use with 4-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)

MQDC1-506
2 m (6.5')
MQDC1-515
5 m (15')
MQDC1-530
9 m (30')

8-Pin M12/Euro-Style
use with 5+ -color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC2S-806RA)

MQDC2S-806
2 m (6.5')
MQDC2S-815
5 m (15')
MQDC2S-830
9 m (30')

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