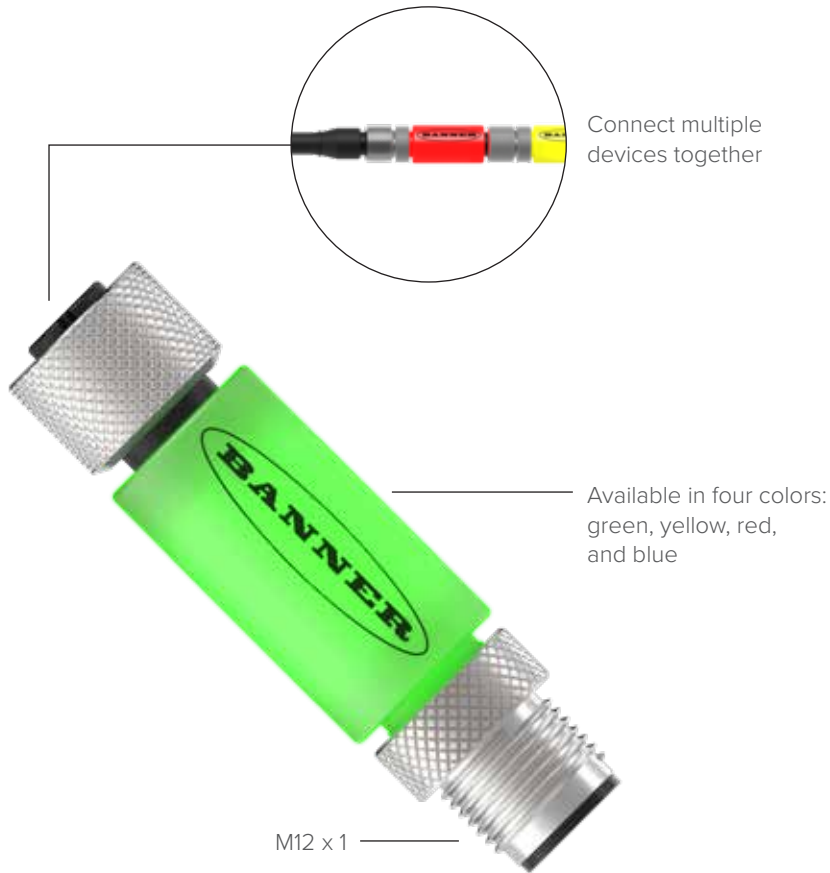# TL15 In-Line Tower Light



## 15 mm In-line Indicator

The TL15 In-Line Tower Light is an ultra-small, modular indicator that can be used standalone, or connected in-line with a tower light, sensor, touch button or other device to display signal status. Its in-line connection and distinct indication give users a simple way to add status information where needed, improving issue response time and increasing throughput.

- Over-molded design for use in harsh environments
- Green, yellow, red, and blue models, each with a specific activation pin
- All signals pass through M12 in-line connection, simplifying installation without disruption to I/O
- TL15 In-Line Tower Light series now offers TL15A audible segments so users can receive color status and audio alerts locally

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more sensors, more solutions

# TL15 In-Line Bright, Ultra-Small Indicator



Connect multiple devices together

Available in four colors: green, yellow, red, and blue

M12 x 1

## TL15 In-Line Tower Light Models

| Color (Input Active Pin) | Models |
|---|---|
| Green (Pin 4) | **TL15G4Q** |
| Yellow (Pin 1) | **TL15Y1Q** |
| Red (Pin 2) | **TL15R2Q** |
| Blue (Pin 4) | **TL15B4Q** |
| Green (Pin 1) | **TL15G1Q** |
| Yellow (Pin 2) | **TL15Y2Q** |
| Red (Pin 5) | **TL15R5Q** |
| Red (Pin 1) | **TL15R1Q** |
| Red (Pin 4) | **TL15R4Q** |
| Green (Pin 4), Yellow (Pin 1), Red (Pin 2) | **TL15GYRQ** |
| Blue (Pin 4), Green (Pin 1), Yellow (Pin 2), Red (Pin 5) | **TL15BGYRQ** |



## At-a-Glance Status Indication

**Challenge**

- Effectively communicating equipment functionality and operator status are crucial to maintaining operations in a complex environment
- A tower light was mounted so high on the machine that it was difficult for operators to see without checking the status
- Operators needed an at-a-glance solution to maximize efficiency at their workstations and minimize downtime

**Solution**

- Operators installed a TL15 in-line tower light on the control panel at eye level to mimic the status of the mounted tower light
- The TL15 in-line device enabled local status indication that provided workers with the information to quickly resolve critical status conditions, resulting in fewer operator stoppage

# TL15A Ultra-Small Audible

Audible indication with a volume of 79 dB at 1 meter

Status light

M12 x 1

## TL15A Audible In-Line Tower Light Models

| Indicator Function (Input Active Pin) | Models |
|---|---|
| Audible (Pin 5) | **TL15A5Q** |
| Audible (Pin 1) | **TL15A1Q** |
| Audible (Pin 2) | **TL15A2Q** |

Connects directly to other TL15 lights

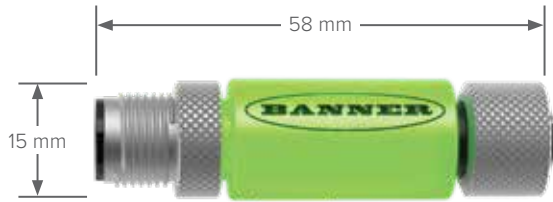## Indicating Coolant Levels in a CNC Machine

**Challenge**

- Operators need to quickly determine the level of coolant in the CNC machine
- If the machine runs out of coolant, it will stop pumping liquid up to the cutter head, causing damage and creating unplanned downtime
- A solution was needed to alert operators to the status of the machine before a problem occurred
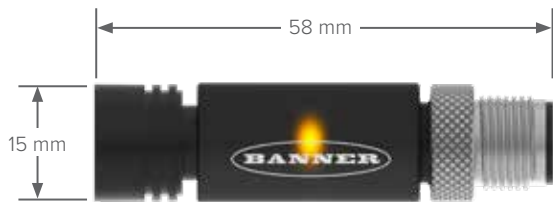
**Solution**

- The highly visible TL15 tower light and TL15A with audible capabilities were paired with a level sensor to measure how much coolant was in the machine
- When the machine was operating effectively, the TL15 tower light would show green; when coolant was low or an error occurred, it would show red, and the TL15A would alert workers for clear status indication
- The in-line tower lights would visibly indicate and sound an alarm when an issue arose, prompting workers to troubleshoot the proper machine

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## Specifications

| | |
|---|---|
| **Supply Voltage** | 12 or 24 V DC |
| **Bimodal Inputs** | PNP/NPN |
| **Construction** | Coupling: Nickel-plated brass<br>Connector Body: PVC diffuse white |
| **Operating Conditions** | −40 to +50 °C |
| **Environmental Rating** | IP65, IP67, IP68, NEMA/UL Type 1 |
| **Certifications** | CE c(UL)us LISTED UKCA |

| | |
|---|---|
| **Supply Voltage** | 12 to 30 V DC |
| **Bimodal Inputs** | PNP |
| **Oscillation Frequency** | 2.9 kHz ± 250 Hz |
| **Sound Intensity** | 79 dB at 1 meter |
| **Construction** | Coupling: Nickel-plated brass<br>Connector Body: PVC diffuse white |
| **Operating Conditions** | −40 to +50 °C |
| **Environmental Rating** | IP60, NEMA/UL Type 1 |
| **Certifications** | CE c(UL)us LISTED UKCA |

## Accessories

**LMBM12MAG**
Attaches to
M12 cordset end

**LMBM12SP**
Attaches to
M12 cordset end

**ACC-CAP M12-10**
Protective
end cap

**LMBS15MAG**

**LMBS15SP**

| | | |
|---|---|---|
| **5-Pin M12**<br>Straight connector models listed;<br>for right-angle models, add **RA** to<br>the end of model number<br>(example, **MQDC1-506RA**) | **MQDC1-506**<br>2 m (6.5')<br>**MQDC1-515**<br>5 m (16')<br>**MQDC1-530**<br>9 m (30') | |

| | | |
|---|---|---|
| **5-Pin Double-Ended**<br>Male straight connector to<br>female straight connector | **MQDEC-501SS**<br>0.3 m (1')<br>**MQDEC-503SS**<br>0.9 m (3') | **MQDEC-506SS**<br>2 m (6')<br>**MQDEC-512SS**<br>3.7 m (12') |

| | |
|---|---|
| **5-Pin M12 Flat QD Splitter** | **CSB-M1251M1251B**<br>0.3 m Trunk (Male)<br>2 x 0.3 m Branches (Female) |