PATLITE®

Flashing Beacon
GL10 Series

Rugged, Outdoor Rated Flashing Beacon For Use in Harsh Environments

Rugged Construction for Demanding Conditions

- Vibration Resistance 110m/s²
- Impact Resistance 1000m/s²
- Dust & Water Protection IP69K

Exceptional Visibility Under Harsh Sunlight

- Outdoor
- Operating Temperature -40～+85℃

Projects Three Colors from One Unit

- 3 colors Red Amber Green
- 13 Flash patterns *GL10-M1NC1-T
- 3 Flash patterns *GL10-M1N-T

2 Control Options Available

- CAN SAE J1939 *GL10-M1NC1-T
- Voltage Control *GL10-M1N-T

RoHS 10 CE UKCA FC

#1 Global Share in Signaling Devices

*2023, Global Info Research

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Environmentally Rugged Construction

Vibration Resistance 110m/s² | Impact Resistance 1000m/s² | Dust & Water Protection IP69K

Superior Resistance to Vibration and Impact

- Vibration Resistance **110m/s²**
- Impact Resistance **1,000m/s²**

Vibration Test

Resistant to Dust and Water

- **IP69K** construction for enhanced dust and water resistance
- Suitable for high-temperature, high-pressure and steam-jet washdown

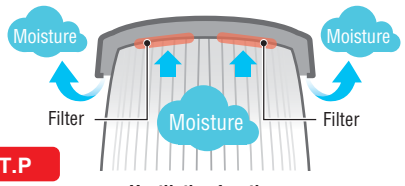
Water Tight Test

Durable integrated globe structure

Resistant to Temperature and Humidity Variations

- Operating Ambient Temperature **−40 to +85°C**
- Ventilation function prevents fogging due to condensation

Complies with various international standards, including EMC (electromagnetic compatibility): ISO13766-1 and environmental testing: ISO16750, regulated for vehicles



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Ventilation function

Indicate Operational Statuses with 3 Different Colors

3 Colors Red Amber Green | 13 Flash patterns | 3 Flash patterns

*GL10-M1NC1-T *GL10-M1N-T

Luminous color	Pattern	Indication
Green	Slow (single) flash ★	Safe
Amber	Double flash ★★	Caution
Red	Triple flash ★★★	Danger

*Above 3 flash patterns are pre-configured and fixed for voltage controlled models
*13 flash patterns can be configured for CAN communication models

Flash pattern video

- Operating statuses can be determined with a combination of 3 light colors and different flash patterns
- Distinct flash patterns can be allocated for each color to assist individuals with color vision deficiencies

Applications

Overload Prevention

Load status

- Safe
- Caution
- Danger

Proximity Warning System

- Safe Area
- Caution Area
- Danger Area

Compatible with proximity sensors, etc.

Exceptional Visibility Under Harsh Sunlight

Outdoor

Operating Temperature -40～+85℃

Wide Light Distribution to Ensure Visibility From a Distance of 100 Meters

Lens structure distributes light more efficiently, maximizing the luminous intensity.

Efficient light emission produces less heat and functions effectively even under intense sunlight.

2 Control Options Available

CAN SAE J1939 *GL10-M1NC1-T

Voltage Control *GL10-M1N-T

CAN Communication Control

- Compatible with **SAE J1939**: communication protocol. Ideal for construction machinery
- 13 types of flash patterns and 4 levels of dimming can be configured through communication control
- Contributes to building a safe system through product condition monitoring in the display status
- Automatic detection and connection at 250kbps/500kbps

Voltage Control

- Non-communication type controlled with voltage application
- 3 flash patterns are fixed and pre-configured for optimal status indication in red, amber and green colors

*Status acquisition function is not supported for this model

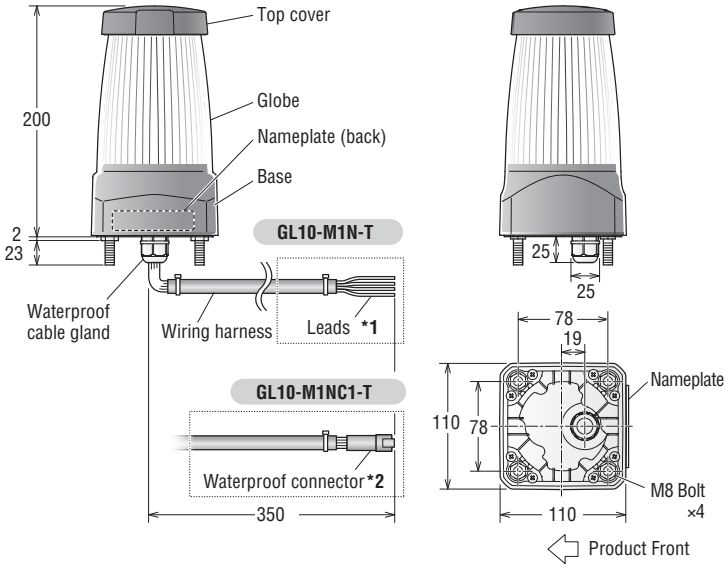
Status indication for the automation and remote operation of construction machinery

Also suitable for agricultural machinery and other equipment that requires vibration and water resistance

Specification

Model		GL10-M1NC1-T	GL10-M1N-T
Rated Voltage		12-24V DC	
Power consumption		Approx. 4W	
Mounting Location/Mounting Direction		Indoor/Outdoor (Construction equipment allowed) / Upright	
Protection Rating		IP6X, IPX6(IEC 60529), IPX9K(ISO 20653)	
	Environmental Condition	Upright (When mounting holes and wire entry holes machined in accordance with the mounting dimensions diagram are used.)	
Vibration Resistance		110m/s²(JIS D 1601:1995)	
Impact Resistance		1,000m/s² 11ms (IEC60068-2-27:2008)	
Communication Specification		CAN	—
	Communication Protocol	SAE J1939	—
Mass (Tolerance ±10%)		840g	

Dimensions (mm)



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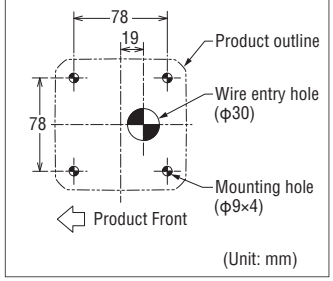
Wire type	IVSSH
Size	0.5 f

*2

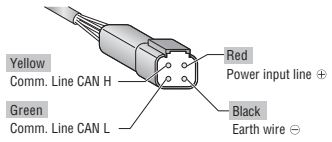
Mfr.	TE Connectivity
Model no.	DEUTSCH connector DT04-4P-CE02 (Compatible connector type: DT06-4S-CE02)

■ Mounting Dimensions



■ Leads and function, Waterproof Connector Pinout

Lead color	GL10-M1NC1-T	GL10-M1N-T
Red	Power input line ⊕	Power input line(Red)
Black	Earth wire ⊖	Earth wire ⊖
Green	Comm. Line CAN L	Power input line (Green)
Yellow	Comm. Line CAN H	Power input line (Amber)



Model Code

	Series	Diameter	Voltage	—	Control	Color
Model Number	GL	10	-M1	N	C1	-T

10: 100mm
M1: 12-24V DC
C1: CAN Communication Control
(Blank): Voltage Control
T: Three color LED (Red, Amber, Green)

PATLITE Corporation

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⚠ CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.