FEDERAL SIGNAL

Ex d Surface Mount
with low-profile lens

Ex d Trunnion Mount
with low-profile lens

Ex de Surface Mount
with high-profile lens

▶ Model G-LED

A B C G M R Y

Global Series® Hazardous Location LED

Federal Signal's patented Global Series® LED Beacons feature a long-life LED with the ability to select one of eight (8) flash patterns (user-configurable) and offers two lens options (low or high-profile). The device is rated to the latest protection concept, "Ex op is" (inherently safe optical radiation). The housing is made from GRP (Glass Reinforced Polyester) designed to serve the demanding needs of offshore marine and land-based industrial applications.

The Global Series LED Beacons flameproof "Ex d" versions come standard with two (2) M20 entries. The increased safety "Ex de" versions include a separate terminal chamber for quick field termination or pass-through wiring, and includes three (3) M20 entries in a standard configuration.

These units can be combined with other Global Series products to create factory direct custom configurations, or optional coupling kits are available for limited field fixturing. The Global Series LED Beacon is ideal for use in alarm control panel applications.

FEATURES

- Available in 24VDC and 120-240VAC 50/60Hz
- Optional 316 stainless steel ratchet adjustable mounting U-bracket (field installation required)
- GRP (Glass Reinforced Polyester) Non-metallic corrosion resistant design
- Two lens options: low- or high-profile
- Dome guard included
- 24VDC models contain a supervisory diode and four wire terminal block
- M20 entries standard (M25 option available)
- LED has 8 on-board flash patterns, factory default is flashing at 60 FPM
- "Auto-sync" available for AC flashing pattern products[2]

- Optional indicator rings are available in six colors: Black, Blue, Green, Magenta, Red and Yellow
- Field customizable legend plates available[1]
- Type 4X, IP66 enclosure
- IP67, IP69K complaint
- Zone 1, 21 Rated, IECEx, ATEX, Ex d IIC, Ex de IIC and Ex tb IIIC
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; Class III
- UL and cUL Listed for Class I, Zone 1 AEx db IIC and Zone 21, AEx op is tb IIIC T200°C
- UKEX certified

MODEL	OPERATING VOLTAGE	OPERATING CURRENT	LIGHT OUTPUT	
			HIGH PROFILE	LOW PROFILE
G-LED	24VDC	0.30 amps	140 cd	175 cd
	120-240VAC 50/60Hz	0.12-0.07 amps	140 cd	175 cd

UL/cUL HAZARDOUS LOCATION RATING

TEMPERTURE CODE AT 70°C	
Class I, Division 2, Groups A, B, C, D	T4
Class II, Division 2, Groups F, G	T6
Class III	T6

UL/cUL HAZARDOUS LOCATION CLASS/ZONE

TEMPERTURE CODE AT 70°C
T4

ATEX/IECEx HAZARDOUS LOCATION RATING

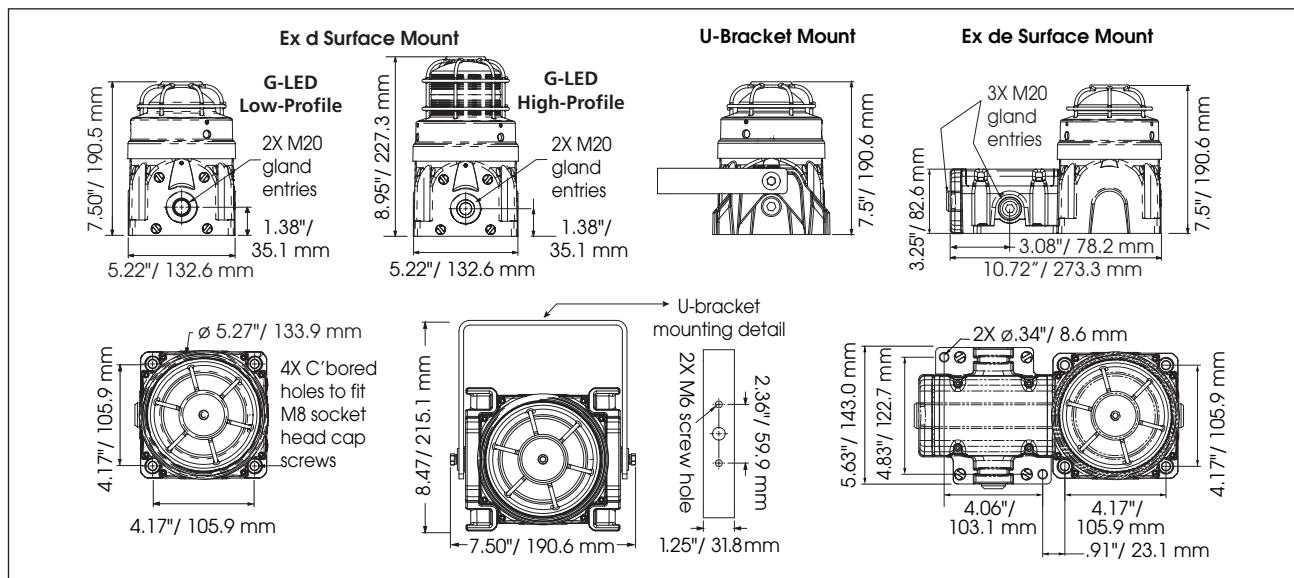| TEMPERTURE CODE AT 70°C/58°C |
| --- |
| T5/T6 |

[1] Recommended labels: BRADY #B-855 Toughwash labels or ULINE #S-16643 weather resistant

[2] Consult our Technical Support team for details

c(UL)us   CE   EAC   INMETRO   IECEx   ⟨Ex⟩   ABS   UKCA   CSFM LISTED

Patent No. 9,886,832 B2

Global Series® Hazardous Location LED (G-LED)

Ex d Surface Mount

G-LED Low-Profile
7.50"/ 190.5 mm
2X M20 gland entries
1.38"/ 35.1 mm
5.22"/ 132.6 mm

G-LED High-Profile
8.95"/ 227.3 mm
2X M20 gland entries
1.38"/ 35.1 mm
5.22"/ 132.6 mm

U-Bracket Mount
7.5"/ 190.6 mm

Ex de Surface Mount
3X M20 gland entries
3.25"/ 82.6 mm
3.08"/ 78.2 mm
10.72"/ 273.3 mm
7.5"/ 190.6 mm

ø 5.27"/ 133.9 mm
4X C'bored holes to fit M8 socket head cap screws
4.17"/ 105.9 mm
4.17"/ 105.9 mm

U-bracket mounting detail
8.47"/ 215.1 mm
7.50"/ 190.6 mm
2X M6 screw hole
2.36"/ 59.9 mm
1.25"/ 31.8mm

2X ø.34"/ 8.6 mm
5.63"/ 143.0 mm
4.83"/ 122.7 mm
4.06"/ 103.1 mm
4.17"/ 105.9 mm
.91"/ 23.1 mm
4.17"/ 105.9 mm

SPECIFICATIONS

Lamp Life:		50,000 Hours
Light Source:		LED
Nominal Operating Temperature Range:	-67°F to 158°F	-55°C to 70°C

ATEX/IECEx Certification Marking:

II 2GD Ex db e op is IIC Gb,Ex tb IIIC Db IP66.   T6 @ 58°C; T5 @ 70°C

II 2GD Ex de IIC Gb, Ex tb IIIC Db IP66. T6 @ 58°C; T5 @ 70°C

ATEX: Baseefa15ATEX0153X

IECEx: IECEx BAS 15.0102X

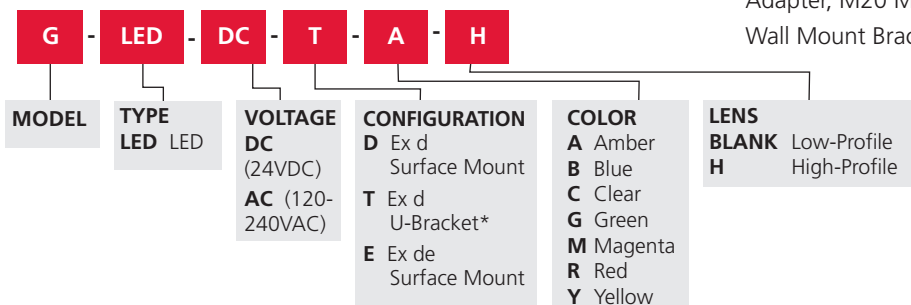|	
Guard and External Fasteners:	316 stainless steel
Terminals:	Ex d: 6 way block (3 in, 3 out)
	Ex de: 3-pole, 4 position quad pole terminal blocks
Cable Entries:	Ex d: 2 entries - M20 x 1.5
	Ex de: 3 entries - M20 x 1.5

UL and cUL Certification Marking:

Class I, Division 2, Groups A, B, C, D	T4 @ 70°C
Class II, Division 2, Groups F, G	T6 @ 70°C
Class III	T6 @ 70°C
	UL and cUL E207119

Net Product Weight	Low-Profile	High-Profile
Ex d Surface Mount:	6.17 lbs (2.80 kg)	6.67lbs (3.02 kg)
Ex d U-Bracket Mount:	8.15 lbs (3.70 kg)	8.65 lbs (3.92 kg)
Ex de Surface Mount:	8.99 lbs (4.08 kg)	9.49 lbs (4.30 kg)

HOW TO ORDER

G - **LED** - **DC** - **T** - **A** - **H**

MODEL	TYPE	VOLTAGE	CONFIGURATION	COLOR	LENS
	LED LED	**DC** (24VDC)	**D** Ex d Surface Mount	**A** Amber	**BLANK** Low-Profile
		AC (120-240VAC)	**T** Ex d U-Bracket*	**B** Blue	**H** High-Profile
			E Ex de Surface Mount	**C** Clear	
				G Green	
				M Magenta	
				R Red	
				Y Yellow	

REPLACEMENT PARTS

DC LED (24VDC) Internal Sub-Assembly Kits
(Includes PCBA, bracket, LED light head and mounting screw)

LED/PCB DC Sub-Assy, Amber	K859501400-A
LED/PCB DC Sub-Assy, Blue	K859501400-B
LED/PCB DC Sub-Assy, White**	K859501400-W
LED/PCB DC Sub-Assy, Green	K859501400-G
LED/PCB DC Sub-Assy, Magenta**	K859501400-W
LED/PCB DC Sub-Assy, Red	K859501400-R
LED/PCB DC Sub-Assy, Yellow**	K859501400-W

AC LED (120-240VAC) Internal Sub-Assembly Kits
(Includes PCBAs, bracket, LED light head and mounting screw)

LED/PCB AC Sub-Assy, Amber	K859501401-A
LED/PCB AC Sub-Assy, Blue	K859501401-B
LED/PCB AC Sub-Assy, White**	K859501401-W
LED/PCB AC Sub-Assy, Green	K859501401-G
LED/PCB AC Sub-Assy, Magenta**	K859501401-W
LED/PCB AC Sub-Assy, Red	K859501401-R
LED/PCB AC Sub-Assy, Yellow**	K859501401-W
E-Box Endcap with M20 Opening	K859500805-02
E-Box Endcap with M25 Opening	K859500805-01

Note: Reference manual for complete list of replacement parts.

ACCESSORIES

E-Box Cover Assembly (Includes two terminal blocks, mounting plate, retention hardware)	K859501414
Adapter, M20 Male to 1/2" Female NPT	K231246A
Adapter, M20 Male to 3/4" Female NPT	K231247
Wall Mount Bracket	G-KIT-WBKT

* Field Installation Required.

** Order white LED board for clear, magenta or yellow product assemblies.

#850000767 Rev. A0