IS-L101L

INTRINSICALLY SAFE L.E.D BEACON

Features

• Input overload and reverse current protection
• Prismatic lens optimises L.E.D effectiveness
• Approved to ATEX, IECEx

Description

The IS-L101L unit is an intrinsically safe field mounting beacon which provides a bright flashing warning signal. The unit can be used independently or combined with an IS-A105N 49 alarm sounder. Combination units can utilise a common zener barrier or galvanic isolator and may be coupled together or mounted separately. With the IS-A105N the alarm accept function can be utilised. By closing a pair of external contacts (i.e push switch) the operator may silence the alarm for set periods between 5 seconds and 2 hours. If after the pre-set time the alarm condition still exists the sounder will activate again.

Specification

Sounder/horn:

Nominal output:	105dB(A) @ 1m +/- 3dB - Tone 2 * [96dB(A) @ 10ft/3m]
No. of tones:	49 (UKOOA/PFEER compliant)
No. of stages:	3
Volume control:	Max. 105dB(A); Min. 96dB(A) - Tone 2
Effective range:	60m/197ft @ 1KHz

Beacon/light:

Light source:	Array of 6 high intensity L.E.D's
L.E.D. colours:	Red, Amber, Blue & Green
Standalone mode:	2Hz (2 double flashes per second)
Effective intensity cd:	48cd* - measured ref. to I.E.S.
Flash rate:	On: 1 Hz (1 double flash per second) Silenced: 2 Hz (2 double flashes per second) (alarm accepted)

General:

Voltage:	16-28vdc via Zener barrier or galvanic isolator
Current:	25mA typical when powered from 24v supply via 28v 300 Ohm Zener barrier
Ingress protection:	IP66
Rating:	Continuous
Housing material:	UL94V0 & 5VA FR ABS
Housing colour:	RAL3000 Red
Fixings:	Stainless Steel
Cable entries:	2 x M20 clearance gland knockouts. Custom configurations also available.
Terminals:	0.5 to 2.5mm²
Operating temp:	-40° to +60°C [-40° to +140°F]
Storage temp:	-40° to +70°C [-40° to +158°F]
Relative humidity:	90% at 20°C [68°F]
Weight:	1.15kg/2.53lbs

*SPL data +/-3dB(A). Measured at optimum voltage.

Part Codes

IS-A105N-R

IS-L101L-R/[x]

ATEX / IECEx / FM

II 1G Ex ia IIC T4 Ga (-40°C <=Ta<= +60°C)

IS Class I, Zone 0, AEx ia IIC T4 Ta = +60°C

IS Class I, Division 1, Groups A, B, C, D T4

GOST-R

0ExiaIICT4 IP65 -40° to +60°C

[x] : LED colour R: Red, A: Amber, B: Blue, G: Green

May be powered from any certified Zener barrier or , galvanic isolator whose output parameters do not exceed :

Uo : 28VDC	Io : 93mA	Po : 1.2W