1-11-020 / IS: Intrinsically safe

IS-L101L LED Beacon

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.

Features

- Input overload and reverse current protection
- Prismatic lens optimises L.E.D effectiveness
- Approved for mining applications

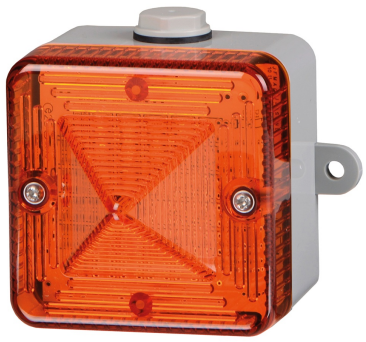
Approvals

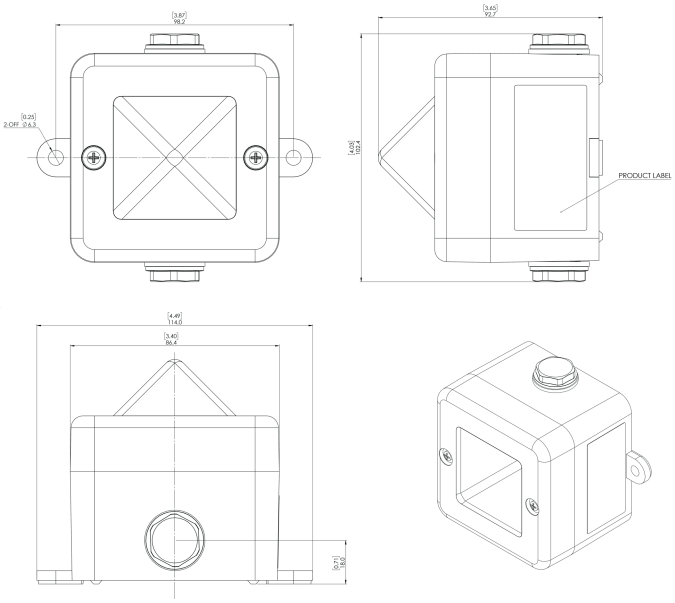
- ATEX certificate: SIRA 04ATEX2302X
- IECEx certificate: IECEx SIR 04.0039X
- FM approved
- GOST-R certificate: POCC GB.JB05.B03365

Coding

ATEX / IECEx / FM:
II 1G Ex ia IIC T4 Ga (-40°C <=Ta<= +60°C)
I M1 Ex ia I Ma (-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
Ex EAC:
0ExiaIICT4 IP65 -40° to +60°C







Specification

Light source:	Array of 6 high intensity L.E.D's.
L.E.D. colours:	Red, Amber, Blue, Green & White Note: Blue, Green & White LED versions utilise a Clear lens
Standalone mode:	2Hz (2 double flashes per second)
Effective intensity cd:	48cd* – measured ref. to I.E.S.
With IS-A105N:	On: 1 Hz (1 double flash per second) Silenced: 2 Hz (2 double flashes per second – alarm accepted)
Voltage:	16-28vdc via Zener barrier or galvanic isolator
Current:	Stand alone: 25mA typical With IS-A105N: 35mA typical
Ingress protection:	IP66
Rating:	Continuous
Enclosure material:	UL94V0 & 5VA FR ABS & PC
Enclosure colour:	RAL3000 Red or Grey RAL7038
Fixings:	Stainless Steel
Cable entries:	2 x M20 clearance supplied with stopping plugs
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:	95% at 20°C [68°F]
Weight:	0.40Kg/0.88lbs

Part Codes

IS-L101L-[x]/[y]

[x]: Enclosure colour:	Red RAL3000 Grey RAL7038
[y]: LED colour:	A: Amber (Amber lens) B: Blue (Clear lens) G: Green (Clear lens) R: Red (Red lens) C: White (Clear lens)

May be powered from any certified Zener barrier or galvanic isolator whose output parameters do not exceed:
Uo : 28VDC Io : 660mA Po : 1.2W

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.