

# ZAB1- M4 EX BEACON

DS-276 Issue 04



Thank you for your interest in Ziztel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

The ZAB1-M4 is a high performance ATEX IECEx certified flashing beacon which incorporates processor controlled light sources. The solid state design eliminates moving parts and the electro/optic conversion provides high efficiency. The unit incorporates four different colour light sources which can each be independently addressed enabling a complete self contained signaling system.

## ZAB1-M4 MULTI- COLOUR FLASHING BEACON

*Totally corrosion proof all stainless steel construction – long through life, minimal maintenance*

*Optional colour selection over 1 x pair cable – major cost saving over conventional multi core based systems*

*No moving parts - microprocessor controlled*

*Multiple light sources – Duplicated xenon discharge tube sets for each colour*

*Zone 1 ATEX and IECEx certified - safe for use in hazardous areas*

The Ziztel ZAB1-M4 is a rugged explosion proof electronic flashing beacon which employs xenon light sources to selectively produce brilliant pulses of visible coloured light. The unit is specified for safety applications where acoustic alarms are ineffective due to excessive ambient noise and provides effective high performance visual warning annunciation. ZAB1 – M4 can be specified for use on safety critical applications as part of a PAGA Public Address and Alarm System. ZAB1-M4 is designed for reliable service on both land based and marine / offshore installations. The ZAB1-M4 beacon can be equipped with up to four different colour sources within the single housing realising major cost savings over conventional discrete multiple beacon arrays. IMO SOLAS colour set is available i.e. Red – Yellow – Amber White or Green (note it is possible to segment two colours e.g. Green / White if required). Colour is assigned by specially designed Fresnel optical lens which provides highly efficient light dispersion. The unit is capable of initiating colour selection by a three pair control cable which also includes mains power supply or ZAB-M4-A can be specified allowing energisation and control over a single pair of field cable conductors. The maximum number of devices on a single circuit is dependent on the cross sectional area of



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the field cable conductors and maximum volt drop tolerance, we advise no more than forty units on a single circuit in any case to improve security.

The unit utilises a totally corrosion proof stainless steel construction which minimises routine service and ensures low through life maintenance cycles.

#### **ZAB1-M4 colour code - colour suffix**

Red	R
Orange	O
Yellow	Y
Blue	B
Green	G
White	W
Amber	A



Example as shown : ZAB1-M4 –R, G, B, A

For IMO SOLAS colour preference specify ZAB1-M4-R, Y, A, G/W

#### **Mains supply input voltage preference**

##### **ZAB1-M4 24 / 48 / 115 / 230**

A range of AC input voltages are available ensuring compatibility with virtually all mains power supply systems. AC supply input 110 / 120 – 220 / 230 V; DC supply input 24 – 48 V.

#### **Protection guard option**

##### **ZAB1-M4 Well glass guard protection**

The ZAB1-M4 employs a toughened well glass lens which is equipped with a stainless steel well glass protection guard as standard.



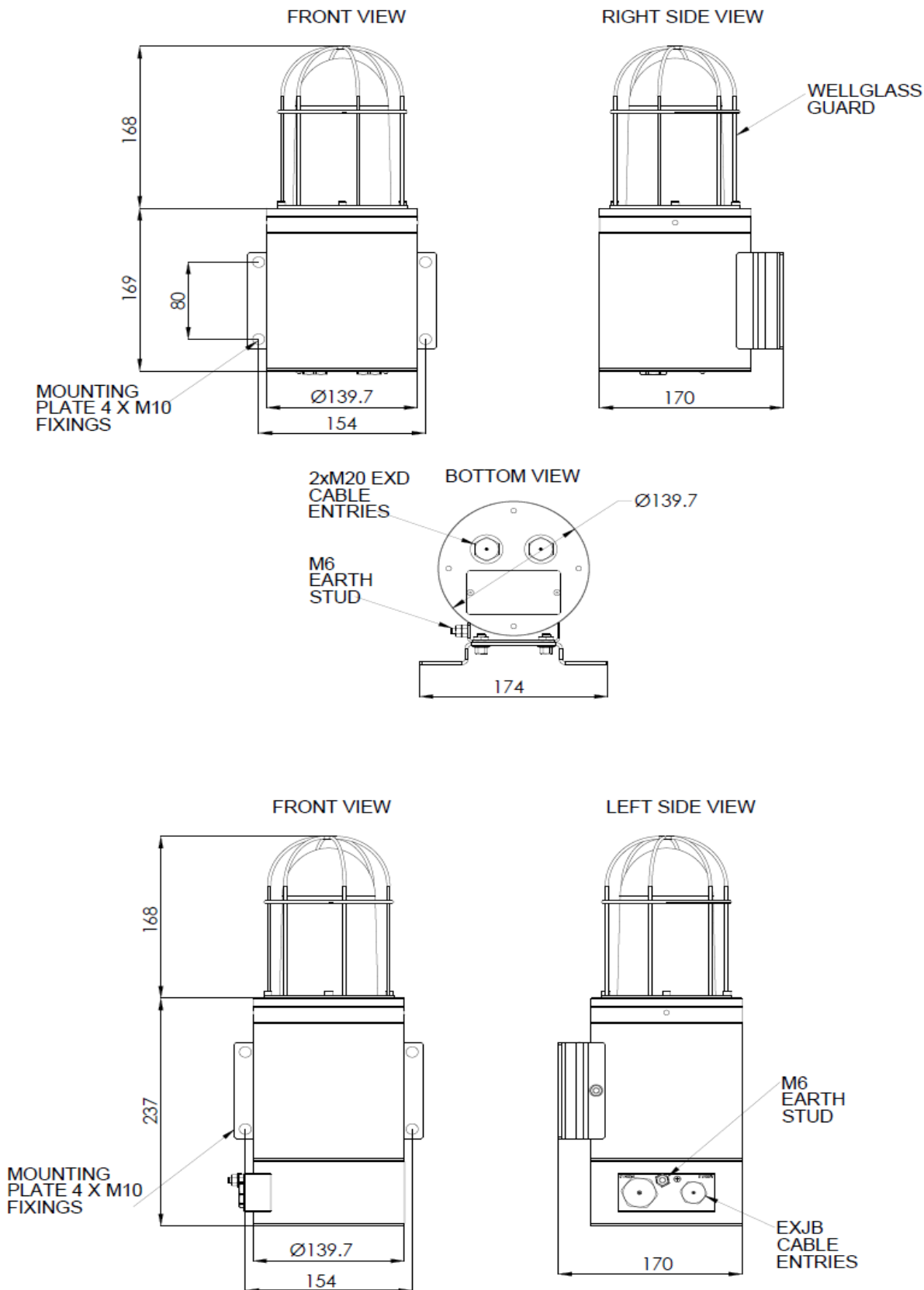
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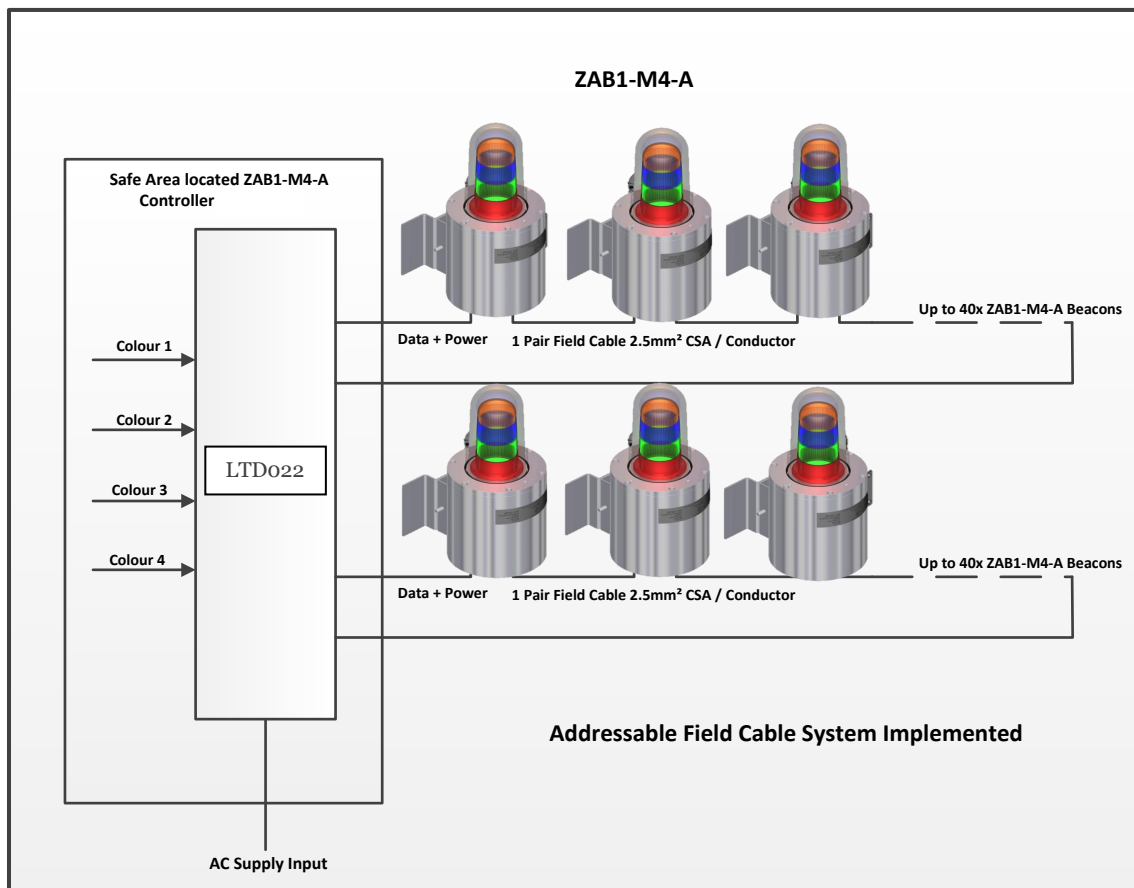
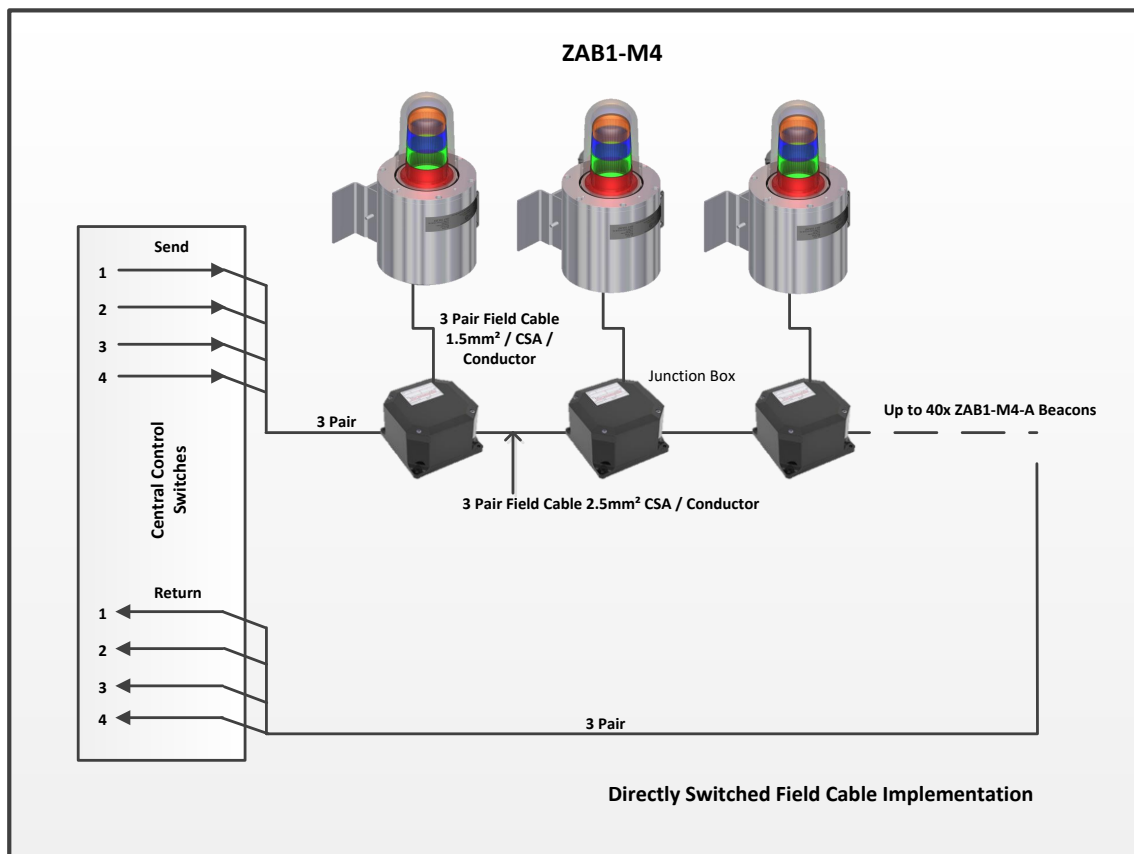
General assembly ZAB1-M4 Exd version shown top. Exe version with added junction box shown bottom



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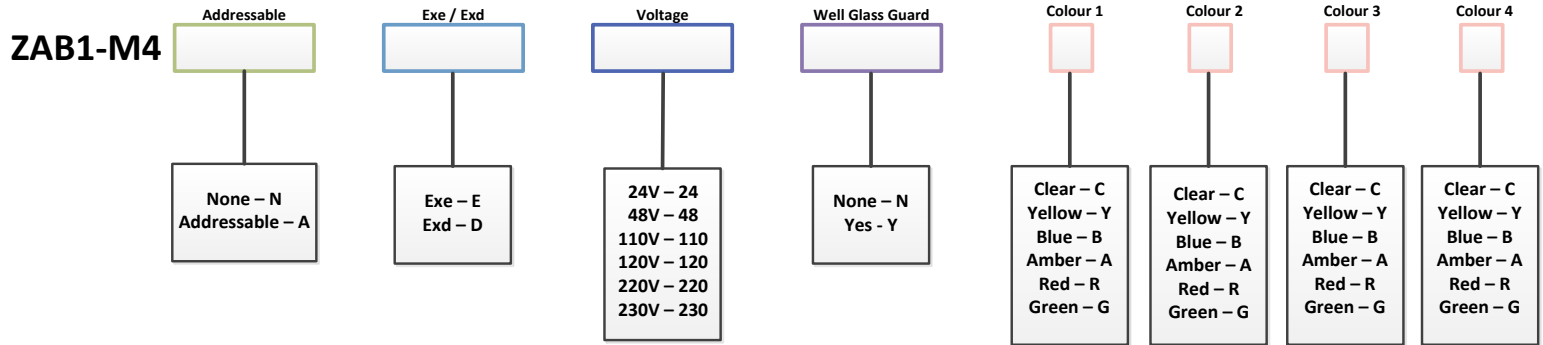


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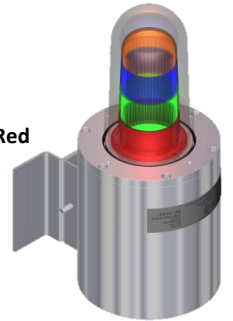
## Ordering Requirements:



### Example:

Addressable - Exe Termination Chamber - 48 Volts - With Well Guard – Colour Blue – Colour Green – Colour Yellow – Colour Red

Order code = ZAB1-M4 A E 48 P B G Y R



Technical Specification	
Light Source	High intensity Xenon tube
Security	Twin tubes for each colour – total eight xenon discharge tubes
Supply Voltage	110 / 120- 220 / 240 VAC 50 / 60 Hz / 270 VAC 50 / 60 Hz
	24 V DC to 48 VDC
Tolerance	+10% / -15%
Consumption	30 Watts / VA (60 Watts / VA peak)
Initiation	5 x field conductors (three pair cable)
Initiation suffix 'A' type	2 x field conductors (single pair cable)
Flash rate	1 Hz
Duty cycle	Continuous
Flash energy	21 Joules / colour set
Temperature Range	-60 °C - +70 °C
IP Rating	IP66 / 68
Weight	4.5Kg Exd; 6Kg Exde
Dimensions Exd variant	170 wide x 337 mm high
Dimensions Exe variant	170 wide x 405 mm high
Gland entry	2 x 20 mm isometric cable gland entries
Mounting attitude	Vertical well glass up, vertical well glass down or horizontal
Enclosure material	Corrosion proof 316g stainless steel
Enclosure colour	Natural
Colour selection - maximum 4 colours (except IMO SOLAS possible 5 colours)	Red, Yellow, Green, Blue, White, Amber, split White / Green
Maximum cable termination cross sectional area	2.5 mm CSA / conductor
Location	Hazardous area Zone 1 IIC T4
Certification	IECEx and ATEX certified

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