

# D1xB2X05 Explosion Proof Xenon Strobe Beacon 5J

The D1xB2X05 is a globally approved explosion proof 5 Joule Xenon beacon. The robust IP66, Type 4/4X corrosion proof LM6 marine grade aluminium alloy enclosure ensures suitability for all Class I/II Div 1, Zone 1, 2, 21 & 22 applications.

Approved to UL1638 and CAN/ULC S526 for fire alarm use the D1xB2X05 beacons produce a high output Xenon flash required for effective signalling in environments with elevated levels of ambient light. The field replaceable colour filter enhances the strobe and is constructed from UV stable PC. The robust enclosure features a threaded flame path, four cable entries. Mounting options include surface via integrated lugs, pendant or by addition of optional multi direction stainless steel bracket. SIL1 compliant to IEC61508 (2010) as standard – SIL2 version available.

## Features

- Four flash rates: 1Hz, 1.3Hz, 1.5Hz & double flash
- Automatic synchronisation on multi-beacon system
- User replaceable Xenon tube secured against shock & vibration
- Stainless Steel guard included as standard
- Field replaceable UV stable lens colour filter
- Stopping plugs included
- 4 x side cable entries, 1 x pendant conduit entry
- Duplicate cable terminations (in & out for daisy-chain installations)
- UL 1638 Visible signaling devices for Fire Alarm
- CAN/ULC S526 Visible signaling device for Fire Alarm

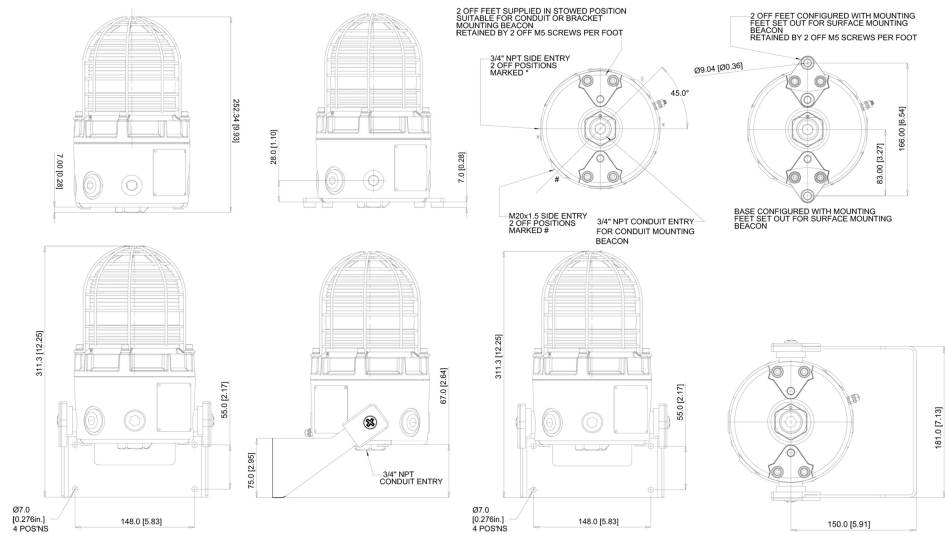
## Approvals

- UL/cUL/ULC – File ref: E245313
- IECEx Certificate: IECEx ULD 19.0006X
- ATEX Certificate: DEMKO 19 ATEX 2009X
- SIL1 & SIL2 compliant to IEC61508 (2010)
- CSFM listing: 7300-2279:0508

## Coding

- ATEX / IECEx
  - II 2G Ex db IIC T4 Gb Ta -55°C to +80°C (AC: +70°C)
  - II 2G Ex db IIC T5 Gb Ta -55°C to +75°C (AC: +50°C)
  - II 2G Ex db IIC T6 Gb Ta -55°C to +60°C (DC only)
  - II 2D Ex tb IIIC T104°C Db Ta -55°C to +80°C (AC: T116°C+70°C)
- NEC Class / Zone
  - Class I Zone 1 AEx db IIC T4 Ta -55°C to +80°C (AC: +70°C)
  - Class I Zone 1 AEx db IIC T5 Ta -55°C to +75°C (AC: +50°C)
  - Class I Zone 1 AEx db IIC T6 Ta -55°C to +60°C (DC only)
  - Zone 21 AEx tb IIIC T99°C Ta -55°C to +80°C (AC: T153°C +70°C)
- CEC Class / Zone
  - Ex db IIC T4 Ta -55°C to +80°C (AC: +70°C)
  - Ex db IIC T5 Ta -55°C to +75°C (AC: +50°C)
  - Ex db IIC T6 Ta -55°C to +60°C (DC only)
  - Ex tb IIIC T99°C Ta -55°C to +80°C (AC: T153°C +70°C)
- NEC / CEC Class / Div
  - Class I Div 1 Group ABCD T5 Ta -55°C to +80°C (AC: T4A +70°C)
  - Class I Div 1 Group ABCD T6 Ta -55°C to +70°C (AC: +40°C)
  - Class II Div 1 Group EFG T5 Ta -55°C to +80°C (AC: T4 +40°C)
  - Class III Div 1 Ta -55°C to +80°C (AC: +40°C)





## Specification

Source:	Xenon Strobe
Energy:	5 Joules
Modes:	1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) Double flash (120 fpm)
Eff. Intensity cd:	20.44cd UL1638 Private mode fire
Eff. Intensity cd:	156.65cd measured ref to I.E.S
Peak Intensity cd:	500,000 cd
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltage DC:	12Vdc (10-14Vdc), 24V dc (20-28Vdc), 48Vdc (42-54Vdc)
Voltage AC:	115Vac (110-120Vac), 230Vac (220-240Vac)
In-rush @ 24Vdc:	920mA
Ingress protection:	IP rating per EN60529:IP66 Type rating per UL50E/NEMA250:4/4X/3R/13
Enclosure matl:	Marine grade LM6 aluminum alloy
Enclosure finish:	Chromate & powder coated finish - anti-corrosion
Enclosure color:	Red (RAL3000) or Grey (RAL7038)
Lens material:	High impact Borosilicate glass
Cable entries:	Side: 2 x 3/4"NPT & 2 x M20x1.5 Pendant: 1 x 3/4"NPT
Stopping plugs:	Brass, Nickel Plated or Stainless Steel
Terminals:	0.5 - 2.5mm <sup>2</sup> (20-14 AWG)
Line monitoring:	Blocking diode included EOL can be factory or user installed
Installation temp:	-55 to +80°C [-67° to +176°F]
Storage temp:	-55 to +80°C [-67° to +176°F]
Relative humidity:	95% - Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist
Weight:	3.2kg/7.1lbs

## Part Codes

Part Code:	Ident.:	Description:
Product type:	D1xB2	
Type:	X05	Xenon Strobe Beacon 5 Joule
Voltage:	DC024	24V dc (20-28Vdc)
	DC048	48Vdc (42-54Vdc)
	AC115	115Vac (110-120Vac)
	AC230	230Vac (220-240Vac)
Cable entries: [e]	M	Side: 2 x 3/4" NPT & 2 x M20, Pendant: 1 x 3/4" NPT
Stopping plug material: [m]	B	Brass
	N	Nickel plated brass
	S	Stainless steel
Lens guard & tag: [s]	1	A2 304 Stainless Steel
	2	A4 316 Stainless Steel
	3	A2 304 St/St with Equip. Tag
	4	A4 316 St/St with Equip. Tag
Version: [v]	A1	UL, cUL, ULC, IECEX, ATEX
	S1	IECEX, ATEX - SIL2 (24Vdc only)
	T1	UL, cUL, ULC, IECEX, ATEX - Tropicalised
Enclosure: [x]	R	Red RAL3000
	G	Grey RAL7038
	S	Special colour - contact E2S
Lens colour: [y]	A, B, C	Amber, Blue, Clear
	G, M, R	Green, Magenta, Red
	Y	Yellow
SP77-0001-A2-R/G		Multi angle wall bracket St/St A2 (304) Red or Grey
SP77-0001-A4-R/G		Multi angle wall bracket St/St A4 (316) Red or Grey
SP65-0001-A2 or A4		Pole Mount Bracket Kit 2" St/St A2 (304) or A4 (316)
SP65-0003-A2 or A4		Sunshade - St/St A2 (304) or A4 (316)
SP77-0002		Spare Xenon flash tube assembly
SP77-0005		Spare Pack of 2 x Surface Mount Lugs
SP77-0006		Spare Pack of 2 x Bracket mount hole plugs

## Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	In rush:
12Vdc	12-14Vdc	585mA	-
24Vdc	20-28Vdc	295mA	920mA
48Vdc	42-54Vdc	145mA	-
115Vac	110-120Vac 50/60Hz	140mA	-
230Vac	220-240Vac 50/60Hz	70mA	-