

## BASEEFA Approved Exd Flame Proof Coil Unit (Exd IIB +H2 T3 to T6)

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### DESCRIPTION

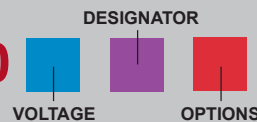
Flameproof coil suitable for Zones 1 and 2, manufactured in accordance with the requirements of the European harmonised standards EN/IEC60079-0, EN/IEC60079-1 and EN/IEC60079-31.

Covered by Certificate of Conformity BAS No. BASEEFA06ATEX0037, category Exd IIB +H2 T3 to T6.

### FEATURES

- M20 x 1.5 conduit entry or 1/2" NPT
- Protection class IP66 according to ENBS60529
- Connection by 2-pole 2.5mm<sup>2</sup> terminal strip + earth
- Continuously rated
- Maximum permitted voltage variation  $\pm 10\%$
- Internal and external earthing connection screw
- Low power consumption
- Wide range of voltages available
- BASEEFA approvals available - ATEX

PRODUCT CODE: **A V 6 3 6 0 D 0 0**



SEE BELOW FOR PRODUCT CODE DETAILS

Any of the below options that are not required enter '0' in relevant box.

#### Standard Voltage

|   |                    |
|---|--------------------|
| B | 24v DC             |
| H | 24v DC Low Power   |
| R | 24v AC (50/60 Hz)  |
| T | 110v AC (50/60 Hz) |
| N | 220v AC (50/60 Hz) |
| U | 240v AC (50/60 Hz) |

#### Designator

|   |              |
|---|--------------|
| G | ATEX Exd IIB |
|---|--------------|

#### Options

|   |                                |
|---|--------------------------------|
| 0 | No option required             |
| E | 1/2" NPT electrical connection |

\* A comprehensive range of non-standard voltages available on request

### FLAMEPROOF SAFETY

Flameproof equipment is used extensively to prevent possible overheating or sparking of electrical equipment causing ignition in a potentially explosive atmosphere.

In the case of a solenoid the coil is enclosed in a robust enclosure which will contain an internal explosion should it occur and prevent its transmission to the surrounding atmosphere.

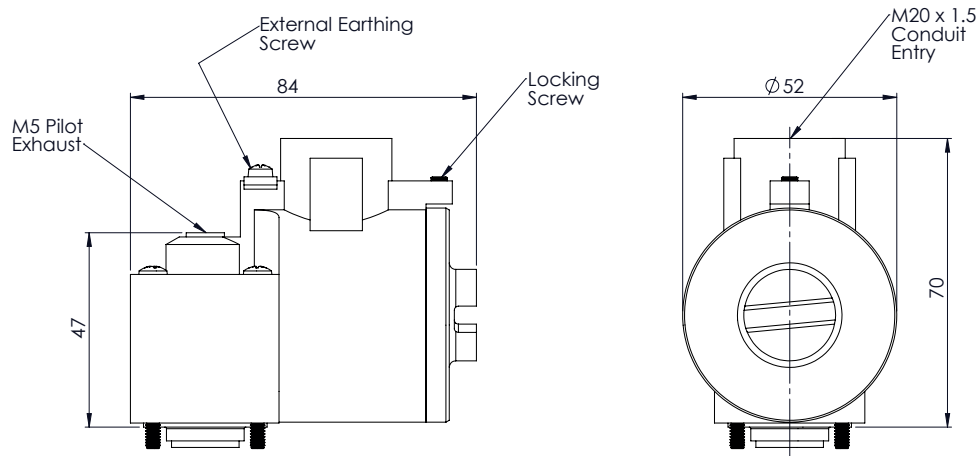
All construction joints in the enclosure are known as flame paths which prevent the transmission of a flame from within the enclosure to the outside atmosphere.

### CABLE GLANDS AND CABLE

Cable Glands 2nd Field wiring must be of a certified type and the cabling methods used must be suitable for the conditions of use. (EN/IEC60079-14)

Sealing of the gland thread is not a requirement of the approval but thread sealant or sealing washers may be used to maintain the IP rating of the enclosure. (EN/IEC60079-14)

## DIMENSIONS (mm)



## MATERIAL SPECIFICATIONS

### STANDARD

|                               |   |
|-------------------------------|---|
| Coil Case                     | Stainless Steel Epoxy Powder Coated       |
| Armature and Fixed Pole Piece | Magnetic Solenoid Quality Stainless Steel |
| Springs                       | Stainless Steel                           |
| Seals and Seats               | Viton                                     |
| Coil Former                   | 30% Glass Filled PBR                      |
| Magnetic Wire                 | Class H Coated Copper                     |
| Guide Tube                    | Stainless Steel                           |

## SOLENOID SPECIFICATIONS

| Coil Type             | DC Solenoid Coil                                | AC Solenoid                                     |
|-----------------------|---|---|
| Voltage Standard      | 24  | 24, 110, 220, 240 (50/60 Hz)                    |
| Voltage Tolerance     | $\pm 10\%$                                      | $\pm 10\%$                                      |
| Ambient Temperature   | -60 to +80°C                                    | -60 to +55°C                                    |
| Duty Cycle            | 100%  | 100%  |
| Degree Of Protection  | IP66  | IP66  |
| Electrical Connection | Junction Box with M20 or 1/2" NPT Conduit Entry | Junction Box with M20 or 1/2" NPT Conduit Entry |
| Power Consumption     | 3W or 1.3W                                      | Pull In - 10VA, Holding - 5VA                   |
| Pressure Range        | 0 - 10 Bar                                      | 0 - 10 Bar                                      |

## TEMPERATURE

| Temperature Rating | Voltage | Rating | Max. Ambient Temp. | Max. Cable Entry Temp. |
|--------------------|---------|--------|--------------------|------------------------|
| T6                 | DC      | 3W     | 40°C               | N/A                    |
| T4                 | AC      | 9.5va  | 40°C               | 90°C                   |
| T5                 | DC      | 3W     | 55°C               | N/A                    |
| T3                 | AC      | 9.5va  | 55°C               | 105°C                  |
| T4                 | DC      | 3W     | 65°C               | 85°C                   |
| T4                 | DC      | 3W     | 80°C               | 105°C                  |