

Intrinsically Safe Solenoid Coil Specification – 10mA & 33mA

COIL OPERATING CHARACTERISTICS

Construction	Diode protected encapsulated assembly
Nominal operating voltage (2,100 ohms)	24V DC (10mA, 0.27W)
Nominal operating voltage (370 ohms)	12V DC (33mA, 0.40W)
Temperature rating	T6
Maximum permitted ambient temperature	65°C
Maximum operating pressure	10 Bar (Air or inert gases)
Cv Factor	0.02

COIL APPROVAL REFERENCE LABELS

The following are the approval references for the coil only, which should not be confused with the full Product Codes.

Note. The relevant Product Code can be found on the appropriate coil or valve data sheet.

- BASEEFA ATEX and IECEx Approval Ref. - EP000/ia
- FM US Approval Reference - EP000/ia/aFM
- FM Canadian Approval Reference - EP000/ia/aFM

IMPORTANT

Coils must be installed in accordance with the appropriate approval details.

APPROVALS

Intrinsically Safe in accordance with the following approvals:

- BASEEFA (ATEX) - Certificate No. BAS01ATEX1391X EExia IIC T6
- FM US (Entity Concept)- Report 3020332 Class I, II, III Division 1 Groups A, B, C, D, E, F & G
- FM Canadian Report 3028180 Class I, II, III Division 1 Groups A, B, C, D, E, F & G
- IECEx – Certificate No BAS 05.0040X Ex ia IIC T6

INTRINSICALLY SAFE SYSTEMS

BASEEFA ATEX and IECEx – Ex 01E2392 Solenoid Valve Control System

Ui = 31V, Ii = 0.67A, Pi = 2.98W, Ci = 0, Li = 0.*

FM (America and Canada) - Under 'Entity' requirements, the concept allows interconnection of intrinsically safe apparatus to safe area apparatus, provided that the criteria for intrinsic safety are met (Maximum voltage, current and maximum unprotected capacitance and inductance).

- Maximum input parameters to coil 35V / 300mA Ci = 0, Li = 0.*

* **Note.** These figures do not represent the operating voltage or current of the coil. An IS interface in circuit with the coil gives operating characteristics as shown above, i.e. approximately 10mA, 0.27W and 33mA, 0.4W power consumption.