



# D400 IS Detail

## FM J.I. 3005029 (3610,3611)

### Intrinsically Safe

Class I, Div. 1, Grp A-B-C-D

Class II, Div. 1 Grp E-F-G

Class III, Div. 1

Non-incendive, suitable for use in Div 2 environment.

### CSA Certification 1052414

**Intrinsically safe;** Enclosure 4X; T4, max 85°C

Class I, Div. 1 Grp. A-B-C-D

Class II, Div. 1 Grp. E-F-G

Class III, Div. 1

**Non-incendive;** Enclosure 4X, max 85°C

Class I, Div. 2 Grp. A-B-C-D

Class II, Div. 2 Grp. E-F-G

Class III

### ATEX(GOST Russia/Ukraine)

Prototype test certificate: Type:

Device Class:

Temperature Class Permissible ambient temp:

### ATEX

Prototype test certificate Type:

Device Class:

Temperature Class Permissible ambient temp:

### ATEX

Prototype test certificate: Type:

Device Class:

Temperature Class: Permissible ambient temp:

### ATEX

Prototype test certificate: Type:

Device Class:

### II 2G EEx ib IIC T6

TÜV 98 ATEX 1370 X

### Intrinsically safe equip

II 2G (EEx ib IIC)

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 50^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 35^{\circ}\text{C}$

### II 2G EEx ib IIC T6

TÜV 04 ATEX 2702 X

### Intrinsically safe equip

II 2G (EEx ib IIC)

II 2G (EEx ia IIC)

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 50^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 35^{\circ}\text{C}$

### II 3G EEx n A II T6

TÜV 02 ATEX 1943 X

### Explosion-proof equip

(Zone2)

II 3G (EEx n A II)

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 65^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 50^{\circ}\text{C}$

### II 2 D IP 6X T 46°C

TÜV 04 ATEX 2702 X

### Intrinsically safe

II 2 D (IP 6X)

### Ex b IIC T6

IECEx TUN 04.0015X, Iss No 0

### Intrinsically safe

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 50^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 35^{\circ}\text{C}$

## Factory Mutual (FM)

### Intrinsically Safe

Class I, Div. 1, Grp A-B-C-D-E-F-G

T6, T5, T4, Ta=40°C, 55°C, 85°C

901265 Entity, FISCO

### Non Incendive

Class I, Div. 2, Grp A-B-C-D

T6, T5, T4, Ta=40°C, 55°C, 85°C

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Class II, Div. 2, Grp E-F-G

T6, T5, T4, Ta=40°C, 55°C, 85°C

Enclosure Type 4X

## Canadian Standard (CSA)

### Intrinsically Safe

Class I, Div. 1, Grp A-B-C-D

Class II, Div. 1, Grp E-F-G

Class III, Div. 1

Enclosure Type 4X

### ATEX(GOST Russia/Ukraine)

Prototype test certificate:

Type:

Device Class:

Temperature Class

Permissible ambient temp:

### ATEX(GOST Russia/Ukraine)

Prototype test certificate:

Type:

Device Class:

Temperature Class

Permissible ambient temp:

### IECEx

Prototype test certificate:

Type:

Temperature Class:

Permissible ambient temp:

### II 2G EEx ia IIC T6

TÜV 02 ATEX 1831 X

### Intrinsically safe equip

II 2G (EEx ia IIC)

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 55^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 40^{\circ}\text{C}$

### II 3G EEx n A II T6

TÜV 02 ATEX 1943 X

### Explosion-proof equip

(Zone 2)

II 3G (EEx n A II)

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 65^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 50^{\circ}\text{C}$

### Ex ia IIC T6

IECEx TUN 04.0015X, Iss No 0

### Intrinsically safe

T4, T5, T6

T4:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 85^{\circ}\text{C}$

T5:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 55^{\circ}\text{C}$

T6:  $-40^{\circ}\text{C} \leq \text{Tamb} \leq 40^{\circ}\text{C}$

Permissible housing surface temperature	Permissible ambient temperature (II D)
T 81°C	-40...70°C
T 61°C	-40...50°C
T 46°C	-40...35°C

### IECEx

Prototype test certificate:

Type:

Temperature Class:

Permissible ambient temp:

**Signal circuit for Foundation Fieldbus/Profibus only for connecting a certified intrinsically safe circuit (e.g. FISCO power supply or barriers) with max. values app. to:**

	FISCO power supply ia/ib for Grp IIB/IIC	FISCO power supply ia/ib for Grp IIB/IIC	Barriers or power supply ia/ib for Grp IIB/IIC
Voltage	Ui = 17.5V	Ui = 17.5V	Ui = 24V
Current	li = 380 mA	li = 360 mA	li = 250 mA
Power	Pi = 5.32W	Pi = 2.52W	Pi = 1.2W
Characteristic	Rectangular	Trapezoidal	Linear