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FM Approvals
Member of the FM Global Group

Electrical Equipment for Explosive Atmospheres | United States Certification | **Weighing Systems, Indicator, Explosive Atmospheres - US**

IND256x Type T256x

Type T256x0H1000abcdef. IND256x Weighing Terminal.
FM18US0258X
IS/I, II, III/1/ABCDEFG/T4 Ta = -10°C to +40°C; – 30411414; Entity; IP66 *(no Wi-Fi)*
IS/I, II, III/1/CDEFG/T4 Ta = -10°C to +40°C; – 30426536; Entity; IP66 *(with Wi-Fi)*
I/1/ AEx ib/IIC/T4 Ta = -10°C to +40°C/Gb – 30411414; Entity; IP66 *(no Wi-Fi)*
I/1/ AEx ib/IIB/T4 Ta = -10°C to +40°C/Gb – 30426536; Entity; IP66 *(with Wi-Fi)*
21/ AEx tb [ib]/IIIC/T60°C Ta = -10°C to +40°C/Db; - 30411414; Entity; IP66 *(no Wi-Fi)*
21/ AEx tb [ib]/IIIC/T60°C Ta = -10°C to +40°C/Db; - 30426536; Entity; IP66 *(with Wi-Fi)*

Entity Parameters:

Power Board Parameters				
Ui = 12.8V	Ii = 3.03A	Pi = 6.83W	Ci = Negligible	Li = Negligible

Serial RS232 Interface					
Connector J1 J1.1/J1/2 – J1.3 (GND)	Uo = +/- 5.36V	Io = +/-12.9mA	Po = 17.2mW	Co = 100nF	Lo = 100uH
	Ui =+/- 10V	-	-	Ci = Negligible	Li = Negligible

Analog Scale Interface					
Connector J5 J5 (1 – 7)	Uo = 5.88V	Io = 171mA	Po = 0.94W	Co = 6.8uF	Lo = 0.3mH

Active CL Interface					
Connector J2	Uo = 5.36V	Io = 131mA	Po = 176mW	Co = 600nF	Lo = 400uH

Passive CL Interface					
Connector J4	Ui = 10V	Ii = 300mA	Pi = 500mW	Ci = 110nF	Li = Negligible

4-20mA Analog Out, two wire					
Connector J2 1 -2	Uo =13.65V	Io = 115mA	Po = 400mW	Co = 680nF	Lo = 400uH
	Ui = 3.5V	Ii = 115mA	-	Ci = 110nF	Li = 0

IO Option Board					
Connector J2 1 -2	Uo =5.4V	Io = 64mA	Po = 86.4mW	Co = 100nF	Lo = 100uH

Wi-Fi Antenna Connection
Max RF-Power <1.3W

a = Communication Option 1: 0, C or W.
b = Communication Option 2: 0, C, E, P or W.
c = Connectivity: 0 or A.

d = Application SW/Module: - or 00.
e = Intrinsically safe supply input: 2.
f = Regional (Approval): Any value.

Specific Conditions of Use:

1. Electrostatic charging during operation and maintenance has to be excluded. The terminal shall only be installed in areas where operation and process related electrostatic charges are not present. The apparatus should only be cleaned with a damp cloth to avoid electrostatic discharge.

2. The apparatus shall not be used where UV light or radiation may impinge on the enclosure.

3. The Wi-Fi antenna is tested for low risk of mechanical damage and shall be protected from impact energy levels.

Details

Certification Type : FM Approved

Certificate Number : FM18US0258X

Class of Work : 3610 - Intrin. Safe Apparatus

Hazardous Location Classification : 21/ AEx tb [ib]/IIIC/T60°C Ta = -10°C to +40°C/Db; - 30411414; Entity; IP66 (no Wi-Fi), 21/ AEx tb [ib]/IIIC/T60°C Ta = -10°C to +40°C/Db; - 30426536; Entity; IP66 (with Wi-Fi), I/1/ AEx ib/IIB/T4 Ta = -10°C to +40°C/Gb – 30426536; Entity; IP66 (with Wi-Fi), I/1/ AEx ib/IIC/T4 Ta = -10°C to +40°C/Gb – 30411414; Entity; IP66 (no Wi-Fi), IS/I, II, III/1/ABCDEFG/T4 Ta = -10°C to +40°C; – 30411414; Entity; IP66 (no Wi-Fi), IS/I, II, III/1/CDEFG/T4 Ta = -10°C to +40°C; – 30426536; Entity; IP66 (with Wi-Fi)

Listing Country : Switzerland

Category : Weighing Systems, Indicator, Explosive Atmospheres - US

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