

APPROVALS (FCS-MB2, FCS-MB4, FCS-MB8, FCS-MB10-T, FCS-MBT)

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Country	Europe	USA	Canada	Canada	Europe		
Authority	ATEX (Category 3)	FM	CSA	CSA	LCIE		
Standard	EN50021: 1999	3611	C22.2 No. 213 - M1987 CAN/CSA - E79-15-95	C22.2 No. 157-92 CAN/CSA - E79-11-95	EN50014(1997) + Amendments 1 & 2 EN50020 (1994)		
Approved for	⊕ II 3G EEx nA[L] IIC T4	Class I, Division 2 Groups A, B, C, D T4	Class I, Division 2 Groups A, B, C, D Ex nA IIC T4	Class I, Division 1 Groups A, B, C, D T4 Ex ia IIC T4	⊕ II 1G EEx ia IIC T4		
Certificate no.	500-047	3013269	1198909	1198909	LCIE 02 ATEX 6212X		
Field wiring parameters				ENTITY FISCO	ENTITY FISCO		
Trunk	Energy limited Ui=32V Ii=1.5A Ci=0 Li=0	Non-arcing	Non-arcing	Intrinsically safe Vmax, Ui=24V Imax, Ii=250mA Ci=0 Li=0 Pi=1.2W	Intrinsically safe Vmax, Ui=17.5V Imax, Ii=380mA Ci=0 Li=0 Pi=5.32W	Intrinsically safe Ui ≤ 24V Ii ≤ 250mA Ci=0 Li=0 Pi ≤ 1.2W	Intrinsically safe Ui ≤ 17.5V Ii ≤ 380mA Ci=0 Li=0 Pi ≤ 5.32W
Spur	Note 1	Non-arcing	Non-arcing	As trunk	As trunk	Uo = 24V Io = 250mA Co = 62µF Lo = 568µH Po = 1.2W	Uo = 17.5V Io = 380mA Co = 116µF Lo = 246µH Po = 5.32W

Note 1: Spur is Energy-limited only if trunk is installed as Energy-limited, in which case spur field wiring parameters are as source of supply to trunk, and limited to 32V and 1.5A max.

APPROVALS (FCS-MB2-SG, FCS-MB4-SG, FCS-MB4-SG-T, FCS-MB8-SG, FCS-MB10-SG-T, FCS-MB12-SG-T*, F118, F215*)

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Country	Europe	USA	USA	Canada	Canada
Authority	ATEX (Category 3)	FM	FM	CSA	CSA
Standard	EN50021: 1999	3611	3611	C22.2 No. 213 - M1987 CAN/CSA - E79-15-95 IEC 60079-15	C22.2 No. 213 - M1987 CAN/CSA - E79-15-95
Approved for	⊕ II 3G EEx nA[L] IIC T4	Class I, Division 2, Groups A, B, C, D T4	Class I, Division 2 Groups A, B, C, D T4	Class I, Division 2 Groups A, B, C, D Ex nA [nL] IIC T4	Class I, Division 2 Groups A, B, C, D Ex nA IIC T4
Certificate No.	500-086*	3013269*	3013852*	1280795*	1198909*
Field wiring parameters					
Trunk	Energy-limited Ui=32V Ii=1.5A Ci=0 Li=0	Non-arcing	Non-arcing	Non-arcing	Non-arcing
Spur	Energy-limited Uo=32V Io=60mA Co=170nF Lo=1.26mH Note 2	Non-arcing	Non-incendive Voc=32V Isc=60mA Ca=170nF La=1.26mH	Non-incendive Voc=32V Isc=60mA Ca=170nF La=1.26mH	Non-arcing

Note 2: Trunk may be installed as Energy-limited or Non-sparking circuit; Spur is Energy-limited in either case.

* FCS-MB12-SG-T and F215 certificates are pending.



APPROVALS (F241, F245, F247, F251, F253, F259, F261, F271*)

- for the latest certification information visit www.mtl-inst.com/certs_1.nsf

Country	Europe		US		Canada		International	
Authority	KEMA		FM		CSA		CSA	
Standard	EN50014(1997) + EN50020 (2002)		3610		C22.2 No. 0 - M1982 C22.2 No. 157-92 CAN/CSA - E79-0-95 CAN/CSA - E79-11-95 FM3600 FM3610		IEC60079-0-(1998 incl A1-2000) IEC60079-11 (1999)	
Approved for	⊕ II 2G EEx ia IIC T4		IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C		Class I, Division 1 Groups A, B, C, D T4 Ex ia IIC T4		Ex ia IIC T4	
Certificate no.	KEMA03ATEX1555X		3020445		1422741		CSA/2004/TR187009-1422741	
Field wiring parameters	ENTITY Intrinsically safe Ui ≤ 24V Ii ≤ 250mA Ci = 0 Li = 0 Pi ≤ 1.2W	FISCO Intrinsically safe Ui ≤ 17.5V Ii ≤ 380mA Ci = 0 Li = 0 Pi ≤ 5.32W	ENTITY Intrinsically safe Vmax = 24V Imax = 250mA Ci = 0 Li = 0 Pi = 1.2W	FISCO Intrinsically safe Vmax = 17.5V Imax = 380mA Ci = 0 Li = 0 Pi = 5.32W	ENTITY Intrinsically safe Vmax, Ui = 24V Imax, Ii = 250mA Ci = 0 Li = 0 Pi = 1.2W	FISCO Intrinsically safe Vmax, Ui = 17.5V Imax, Ii = 380mA Ci = 0 Li = 0 Pi = 5.32W	ENTITY Intrinsically safe Ui = 24V Imax, Ii = 250mA Ci = 0 Li = 0 Pi = 1.2W	FISCO Intrinsically safe Ui = 17.5V Imax, Ii = 380mA Ci = 0 Li = 0 Pi = 5.32W

APPROVALS (F245-XE, F251-XE, F259-XE, F271-XE*, FCS-MBT-XE)

- for the latest certification information visit www.mtl-inst.com/certs_1.nsf


Country	Europe
Authority	KEMA
Standard	EN 60079-0:2004 EN 60079-7:2001 EN 60079-18:2004
Approved for	⊕ II 2 G Ex em IIC T4
Certificate no.	KEMA05ATEX2006
Trunk wiring parameters	Rated voltage 30V DC Rated current 1.5A

*F271 and F271-XE certification pending



APPROVALS (FBT1-IS)

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Country	Europe		US	
Authority	BASEEFA		FM	
Standard	EN50014(1997) +A1 & A2 EN50020 (2002)		3610 Entity	
Approved for	 II 1G EEx ia IIC T4 (-40°C ≤ Ta ≤ +70°C)		IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C	
Certificate no.	Baseefa 02ATEX0042		3017464	
Field wiring parameters	ENTITY Intrinsically safe Ui = 30V li = 250mA Ci = 0 Li = 0 Pi = 1.2W	FISCO Intrinsically safe Ui = 17.5V li = 380mA Ci = 0 Li = 0 Pi = 5.32W	ENTITY Intrinsically safe Vmax = 30V Imax = 250mA Ci = 0 Li = 0 Pi = 1.2W	FISCO Intrinsically safe Vmax = 17.5V Imax = 380mA Ci = 0 Li = 0 Pi = 5.32W

