HAZARDOUS LOCATION CERTIFICATIONS AND RATINGS

RELEVANT GLOBAL LOCATION *Surface Applications Above Ground and Sea*	GOVERNING STANDARD	GAS RATINGS	DUST RATINGS
United States	**NEC 500**	**Class I (Division 1) Group A, B, C, D, T4**	**Class II & III (Division 1) Group E, F, G, T4**
Safety ratings in the US are governed under the National Electrical Code (NEC). There are two separate classification systems (NEC 500 and NEC 505). To ensure universal acceptance, MSA HAZ-LOC coils have been approved under both systems.			
United States	**NEC 505**	**Class I (Zone 1) AEx d IIC T4 Gb**	**Class II (Zone 21) AEx tb IIIC T4 Db**
Mandatory for Gulf of Mexico Class and Zone Rating. Most international markets require recognition under the International Electrotechnical Committee (IEC) Ex scheme.			
Canada	**CEC/CSA**	**Ex d IIC T4 Gb (Zone 1)**	**Ex tb IIIC T4 Db (Zone 21)**
Canadian safety ratings are regulated by the Canadian Electrical Code (CEC), closely following the US-NEC Standards. Similar to NEC 500, NEC 505 and ATAX Gas and Dust ratings.			
Europe	**ATEX**	**Ex II 2 G | Ex d IIC T4 Gb (Zone 1)**	**Ex II 2 D | Ex tb IIIC T4 Db (Zone 21)**
Similar to NEC 505 Gas and Dust ratings.			
International *(Excluding Above Locations)*	**IECEx**	**Ex d IIC T4 Gb (Zone 1)**	**Ex tb IIIC T4 Db (Zone 21)**
Similar to ATEX Gas and Dust ratings.			

SELECTING YOUR PART NUMBER

EXPLANATION	HAZ-LOC *Solenoid Coils*	CONDUIT *Inlet Thread*	DIMENSIONS *Coil (L) x Tube (D)*	VOLTAGE *Standard Ratings*	PCB CONFIGURATION	AMBIENT *Temp. Range (°C)*	TEMP. CODE	ATMOSPHERE GROUP
Certified Part Options	**EX**	**M** (M20 x 1.5) I (1/2" NPT)	40 mm x 13 mm 50 mm x 16 mm **60 mm x 19 mm** 60 mm x 22 mm	12 VDC 24 VDC 120 VAC **240 VAC**	**AC** **DC** **TVS***- DC with TVS Diode Protection	−40° to +40° −40° to **+80°**	**T4** (135°C)	**D** - Dust & Gas **G** - Gas
Example Part Number	**EX**	**M**	**60 x 19**	**240**	**AC**	**80**	**T4**	**D**
Example Part Description	**HAZ-LOC** Coil, **M**20 x 1.5 Thread for Conduit, **60** mm **x 19** mm, **240** Volt AC, **80**°C Max Ambient Temp and **T4** Max Surface Temp 135°C **D** for use in gas or dust atmosphere							

RECOGNIZED COMPONENT
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Conforms to ANSI/ISA STD 60079-31, UL STDS 1203, 50, 50E, 60079-0 & 60079-1
Certified to CAN/CSA STD C22.2 Nos. 30, 25, 0.4, 0.5, 60079-0, 60079-1 & 60079-31

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