



Class I Division 1 Hazardous Location Information

Explanation
Specification
Certification

Flammable Gases & Vapors

1. Ignitable concentrations of flammable gases or vapors may exist under normal operating conditions.
2. Ignitable concentrations of gases or vapors that may exist frequently because of repair or maintenance operations or because of leakage.
3. Breakdown or faulty operation of equipment or processes might release ignitable concentrations of flammable gases or vapors, and might also cause simultaneous failure of electric equipment.

A Hazardous Location Requires:



Ignition Source

1. There must be Fuel to burn.
2. There must be Air to supply oxygen.
3. There must be Heat to start and continue the combustion process.

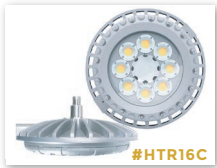
Class I Groups

Group A	Group B	Group C	Group D
<ul style="list-style-type: none"> • Acetylene 	<ul style="list-style-type: none"> • Hydrogen • Butadiene • Ethylene Oxide • Propylene Oxide • Acrolien 	<ul style="list-style-type: none"> • Ethylene • Cyclopropane • Ethyl Ether 	<ul style="list-style-type: none"> • Propane • Acetone • Ammonia • Benzene • Gasoline • Hexane • Methanol • Naptha • Natural Gas • Ethanol • Butane • Toluene

Gas Type by Volatility	Typical Self Ignition
Carbon Disulphide	90°C / 194°F
Ethyl Nitrate	90°C / 194°F
Butane	287°C / 548°F
Acetylene	300°C / 572°F
Ethyl Acetate	425°C / 797°F
Acetone	465°C / 869°F
Benzene	498°C / 928°F
Hydrogen	500°C / 932°F
Industrial Methane	535°C / 995°F
Carbon Monoxide	605°C / 1,121°F
Ammonia	650°C / 1,202°F

T-CODES		MAX Surface Temperature
NEC 505	NEC 500	
T1	T1	450°C / 842°F
T2	T2	300°C / 572°F
	T2A	280°C / 536°F
	T2B	260°C / 500°F
	T2C	230°C / 446°F
T3	T2D	215°C / 419°F
	T3	200°C / 392°F
	T3A	180°C / 356°F
	T3B	165°C / 329°F
T4	T3C	160°C / 320°F
	T4	135°C / 275°F
	T4A	120°C / 248°F
T5	T5	100°C / 212°F
T6	T6	85°C / 185°F

Solas Ray - CLASS I DIVISION 1 PRODUCTS



#HTR16C

The Boss
T5, T4A / IP67



#HTR9C

The Monitor C
T5 / IP67



#HTR9BB

The Monitor Battery Backup
T5 / IP66



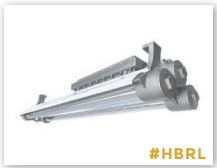
#HTR7C

The Lookout C
T6 / IP67



#HJCR

The Sentinel
T4 / IP66



#HBRL

The Brute
T4 / IP66



#HTL1

The Keeper One
T6 / IP67



#HJ1L

The Steward
T4 / IP66



#HJGJJ

The Pilot
T4 / IP66



#HJDS

The Dominator
T5 / IP66



#CTL

The Commander
T6 / IP65



#HJES

The Guide
T4 / IP66