



EXPLOSION-PROOF SYSTEMS

The explosion-proof equipment has been designed to meet rigorous requirements for installations in hazardous areas, where flammable gases and dusts may be present. All the EEX series have been certified to meet the ATEX and IECEx standards. The housings can accommodate most cameras and lens combinations while the Pan & Tilt motor, due to the pre-wired single multi-core cable, simplifies installation and maintenance. A wide range of solutions, different and innovative, is currently being used in explosive and hazardous environments throughout the world.

EXPTC-EXPTD	97
EXHC-EXHD	101
EXDTRX3	105

ATEX - LABELLING AND PROTECTION TYPE

ATEX (TUV Nord Certification)
Directive 94/9/CE

COD.	DESCRIPTION
II	Group (surface device, no mining)
2	Category (elevated protection degree, the devices of this category can be installed in zone 1 and 21 and in zone 2 and 22)
G D	Atmosphere type (gases and dusts)
EEX d	Explosion-proof housing for potentially explosive environments
IIC	Gases group
T6-T85°C	Temperature classification for gases and dusts respectively
IP65	Enclosure weatherproof standard

IECEX - LABELLING AND PROTECTION TYPE

IECEX (TUV Nord Certification)
Protocols IEC 60079-0:2000, IEC 60079-1:2001, IEC 61241-1:2004

COD.	DESCRIPTION
Ex d	Explosion-proof housing for potentially explosive environments
IIC	Gases group
T6	Device class temperature
DIP A21	Dust ignition protection, zones type 21-22
T85°C	Max superficial temperature
IP65	Enclosure weatherproof standard

NOTE: A higher T class automatically covers gases in lower T class groups (T6 is better than T1). In addition; IIB also covers IIA; IIC also covers IIB and IIA.

GAS GROUP CLASSIFICATION

TEMPERATURE CLASS (Maximum surface temperature °C of the housing *)

CLASS	T1 450 °C	T2 300 °C	T3 200 °C	T4 135 °C	T5 100 °C	T6 85 °C
I	Methane					
IIA	Acetone Ethane Ethyl acetate Ammonia Benzene (pure) Acetic acid Carbon monoxide Methanol Propane Toluene	N-butane N-butyl alcohol	Benzene Diesel fuel Aircraft fuel Heating oil N-hexane	Acetaldehyde Ethyl ether		Ethyl nitrate
IIB		Ethylene				
IIC	Hydrogen	Acetylene			Carbon disulphide	

* Normally referred to an ambient temperature = 40°C.

The lowest ignition temperature of the explosive atmosphere must be higher than the maximum surface temperature of the housing.

The lower is the temperature class, the better it is.

CERTIFIED CABLE GLANDS
FOR NON ARMoured CABLES

Code	Step	For cables with Ø min - max (mm)
OCTEX3/4	3/4" GAS	14 - 17
OCTEX1/2	1/2" GAS	6 - 9

CERTIFIED GASKETS TO USE IN
CABLE GLANDS FOR NON ARMoured CABLES

Code	Content	For cables with Ø min - max (mm)
OCTEXGOM	1 Gasket	12 - 14.5
	1 Gasket	9 - 12