

# OPTIMA-EX[GD] Series



ATEX [Ex] II 2 GD

## PLUGS



## VERSIONS



Plugs

16A-32A  
63A-125A

## PRODUCTS FOR USE IN A POTENTIALLY EXPLOSIVE ENVIRONMENT

Scame offers products suitable for installation into environments under potential risk of explosion identified as Zone 1/2 and 21/22 and that enter into the field of application for the ATEX Directive (European Directive 94/9/CE and IECEx).



PLUG LABEL  
OPTIMA-EX[GD] SERIES

219.6336 Via Costa Erta 15 Parre BG ITALY	
INERIS 15ATEX0017X	 
IECEx INE15.0033X	
Ex e IIC T6 Gb	
Ex tb IIIC T80°C Db IP66	
Tamb. -35/+60°C	
3P+ ±63A-6U 380-415V~	

## REFERENCE STANDARDS

ATEX IECEx	<p><b>IEC/EN 60079-0</b> Electrical apparatus for use in the presence of combustible dust. <i>Part 0: General requirements.</i></p>
ATEX IECEx	<p><b>IEC/EN 60079-1</b> Explosive Atmospheres. <i>Part 1: equipment protection by flameproof enclosures "d"</i></p>
ATEX IECEx	<p><b>IEC/EN 60079-31</b> Electrical apparatus for use in the presence of combustible dust. <i>Part 31: Protection by enclosures 'tD'.</i></p>
ATEX IECEx	<p><b>IEC/EN 60079-7</b> Explosive Atmospheres. <i>Part 7: equipment protection by increased safety "e"</i></p>
	<p><b>IEC/EN 60309-1</b> Plugs, socket outlets and couplers for industrial purposes. <i>Part 1: general requirements.</i></p>
	<p><b>IEC/EN 60309-2</b> Plugs, socket outlets and couplers for industrial purposes. <i>Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.</i></p>

## ■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

For specific substances please contact our technical service.

## ■ TECHNICAL CHARACTERISTICS

Rated current:	<b>16A-32A-63A-125A</b>
Rated voltage:	<b>50÷690V~</b>
Frequency:	<b>50÷60Hz</b>
Insulating voltage:	<b>690V~</b>
ATEX Code:	<b>Ex II 2 GD</b>
Ex Protection type:	<b>Ex e IIC T4, T5, T6 Gb Ex tb IIIC T80°C Db IP66</b>
Ambient temperature range:	<b>-50°C + 60°C for plug 16/32A -35°C + 60°C for plug 63/125A</b>
Maximum permissible surface temperature (DUST):	<b>T80°C</b>
Temperature class (GAS):	<b>T4/T5/T6</b>
Protection degree:	<b>IP66</b>
Impact Resistance:	<b>7J</b>
Plugs material:	<b>PA6 - Dissipative</b>
Plugs colour:	<b>Black RAL9011</b>

## ■ ATEX IECEX CERTIFICATE

ATEX 16A-32A-63A-125A: **INERIS 15ATEX0017X**

IECEX 16A-32A-63A-125A: **IECEX INE 15.0033X**

## ■ ELECTRICAL FEATURES OPTIMA-EX[GD] SERIES

Rated Current	Maximun Current			Max. Cable Entry Temperature when Ta +60°C
	Ta 40°C	Ta 50°C	Ta 60°C	
<b>16A</b>	16A	16A	16A	<b>80°C (*)</b>
<b>32A</b>	32A	32A	32A	<b>85°C (*)</b>
<b>63A</b>	63A	63A	63A	<b>90°C (*)</b>
<b>125A</b>	100A	112A	125A	-

(\*) WARNING: the cable entry can be reach high temperature; suitable cable can be used.



# OPTIMA-EX[GD] Series



## TECHNICAL FEATURES

**1**  
**ATEX [Ex II 2 GD]**  
**2**  
**3**

OPTIMA-EX[GD] SERIES	Unit		Value			
Rated Current			16A	32A	63A	125A
Code			219.16...	219.32...	219.63...	219.125...
Suitable Size cables Ground-Terminals	(mm <sup>2</sup> )		2,5	6	10	25
Power Supply Terminals - Tightening-Torque	(Nm)		1	1,5	2	4
Cable size accepted by Cable-Clamp (eg.H07RN-F) Do not use armoured cable	(mm)	2P+E	14	16	21	30
		3P+E				
		3P+N+E				
Cable Gland/Cable-Clamp Tightening-Torque	(Nm)	2P+E	5,6	10	10	25
		3P+E				
		3P+N+E				
Cable-Gland/Cable-Clamp (Screw) - Tightening-Torque	(Nm)		0.8	0.8	0.8	0.8
Handle Screws – Tightening-Torque	(Nm)		1	1	1,2	1,2