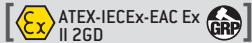


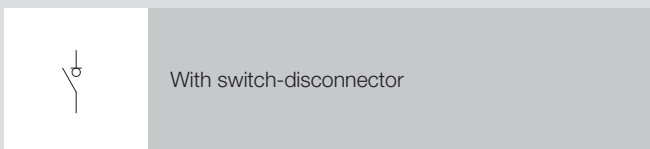
ADVANCE-GRP[GD] Series



SWITCHED INTERLOCKED SOCKET OUTLETS



The switched interlocked socket outlets with non-sparking switch (Ex db eb) in the ADVANCE-GRP[GD] Series are suitable for installation in environments with classification Ex zone 1/Gb -2/Gc (due to the presence of gases, vapours and mists in group IIC) and/or zone 21/Db - 22/Dc (due to the presence of the combustible dust in group IIIC). The use of a GRP material (Glass-fibre Reinforced Polyester) combined with the substantial thickness of the enclosure walls guarantees excellent mechanical resistance and a long life. This material is highly resistant to contamination and corrosion and is suitable for applications requiring the use of components with a low smoke emission and no halogens (LSOH low smoke zero halogen). The material is charged with "carbon black", which helps reduce the surface resistivity of the material and consequently eliminate the risk of ignition due to the formation of sparks by static electricity. ADVANCE-GRP[GD] interlocked sockets are used exclusively with plugs in the OPTIMA-EX[GD] Series.



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).

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

REFERENCE STANDARDS

ATEX IECEX	IEC/EN 60079-0 Electrical apparatus for potentially explosive atmospheres. <i>Part 0: General requirements.</i>
ATEX IECEX	IEC/EN 60079-1 Electrical apparatus for potentially explosive atmospheres. <i>Part 1: equipment protection by flameproof enclosures "d".</i>
ATEX IECEX	IEC/EN 60079-7 Electrical apparatus for potentially explosive atmospheres. <i>Part 7: equipment protection by increased safety "e".</i>
ATEX IECEX	IEC/EN 60079-31 Electrical apparatus for potentially explosive atmospheres. <i>Part 31: Protection by enclosures "t".</i>
LVD	IEC/EN 60309-1 Plugs, socket outlets and couplers for industrial purposes. <i>Part 1: general requirements.</i>
LVD	IEC/EN 60309-2 Plugs, socket outlets and couplers for industrial purposes. <i>Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.</i>
LVD	IEC/EN 60309-4 Plugs, socket-outlets and couplers for industrial purposes. <i>Part 4: Switched socket-outlets and connectors with or without interlock.</i>

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	50÷690V~
Frequency:	50÷60Hz
Insulating voltage:	690V~
Ambient temperature:	16-32A: -50°C ≤Ta ≤+60°C 63A: -35°C ≤Ta ≤+60°C 125A: -35°C ≤Ta ≤+40°C
Protection degree:	IP66
Impact Resistance:	7J
Switched socket outlets with interlock material:	Dissipative Thermosetting (GRP)
Colour:	Black RAL9005

■ Ex CHARACTERISTICS

ATEX Category:	Ex II 2GD
Ex Protection type:	Ex db eb IIC T3,T4, T5, T6 Gb Ex tb IIIC T80°C Db
Surface temperature class DUST:	T80°C
Temperature class GAS:	T3, T4, T5, T6
ATEX Certificate 16A-32A-63A-125A:	INERIS 15ATEX0017X
IECEX Certificate 16A-32A-63A-125A:	IECEX INE 15.0033X
EAC Ex Certificate:	НАИНО ЦСВЭ № TC RU C-IT.AA87.B.00870

■ WIRING OPERATIONS

Rated current (A)	Cable entry	Cable section (max).
16A	1xM25 (*)	12/18
32A	1xM32 (*)	16/25
63A	1xM40 (*)	22/32
125A	1xM50 (*)	28/38,5

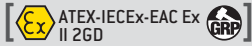
(*) You can request the customised configuration of the cable input for the entire series of the ADVANCE-GRP[GD] socket.

■ ELECTRICAL FEATURES SWITCH DISCONNECTORS

Rated Current In		16/32A	63A	CZ0513-180A
Rated insulation voltage Ui	VAC	690	690	690
	415V	-	-	-
	500V	-	-	-
AC22A Mixed resistive and inductive loads, including moderate overloads	690V	32	63	125
	415V	-	-	-
	500V	32	-	-
AC23A Rated operational power (°)	690V	-	63	125
	415V	-	-	-
	500V	25	50	-
AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	690V	-	-	125

(°) This values are given for guidance and may vary according to the specifics provided by the motor manufacturer.

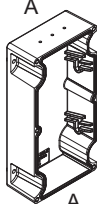
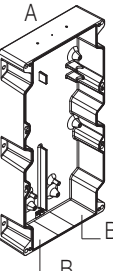
ADVANCE-GRP[GD] Series

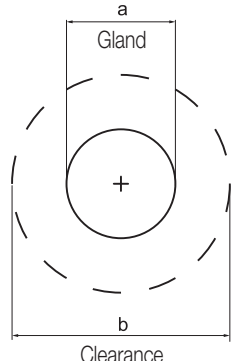


ELECTRICAL PARAMETERS - AUXILIARY CONTACT ATEX/IECEX Certification – Auxiliary Contact

Type	V _{max} - I _{max}	Mode of protection (Nm)	ATEX Certificate	Ambient Temperature
Ex-TECH Solution				
ZBWE - ...	415V – 4A	Ex db eb IIC Gb	INERIS 02 ATEX 9007U	-50°C / +75°C
ZBWE - ...	415V – 4A	Ex db eb IIC Gb	IECEX INE13.0063U	-50°C / +75°C

DRILLING AREA

Drilling Area		Socket Size	Cable gland size	Clearance		Max. drill holes
	Dimensions			a	b	
	80x45mm	16/32A A=A	20mm 25mm 32mm	21mm 26mm 33mm	39mm 46mm 56mm	2 2 1
	110x55mm	63A A=A	25mm 32mm 40mm	26mm 33mm 41mm	46mm 56mm 70mm	2 2 1
	196x72mm	125A lato superiore (A)	25mm 32mm 40mm 50mm	26mm 33mm 41mm 51mm	46mm 56mm 70mm 78mm	5 3 2 2
	72x72mm	125A lato inferiore B=B	25mm 32mm 40mm 50mm	26mm 33mm 41mm 51mm	46mm 56mm 70mm 78mm	1 1 1 1



CROSS SECTIONAL AREAS CONDUCTORS & TORQUE

TERMINALS CONTACTS - TORQUE			
Type	Cross Sectional Areas Conductors		Tightening Torque - (Nm)
	Min.	Max.	
16A	4 mm ²	10 mm ²	0.8
32A	6 mm ²	10 mm ²	0.8
63A	16 mm ²	25 mm ²	2.5
125A	50 mm ²	70 mm ²	3.5

EARTH TERMINALS

EARTH TERMINALS CONTACTS - TORQUE		
Type	Cross Sectional Areas Conductors (mm ²)	Tightening Torque - (Nm)
16/32A	10/16mm ²	1.2
63A	Weidmuller Ex e terminal type WPE35 35mm ²	3.5
125A	50/70mm ²	3.5