

INCREASED SAFETY LIGHTING FIXTURES FOR BI-PIN FLUORESCENT LAMPS

Explosion Proof Electrical Equipment



Ex Lighting

AVF

Installation: hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)
Classification: Group II - Category 2G 2D



GOST-R
RTR Ex Proof



	LIGHTING FIXTURE		
	ATEX 94/9/EC	GOST-R (RTR / RTN)	GOST-K
EXECUTION	⊕ II 2 GD EEx ed IIC T5 T70°C	1Ex ed IIC T5 Ex tD A21 Ta 70°C	2Ex ed IIC T5 DIP A21 Ta 70°C
INSTALLATION	-20°C ÷ +50°C	-40°C ÷ +50°C	-40°C ÷ +55°C
PROTECTION DEGREE	IP66	IP66	IP66
CERTIFICATE REF.	KEMA 01 ATEX 2069	POCC IT. ME92.B02923	No. 07/43-269
RULES OF COMPLIANCE	EN 50014:1997, EN 50018:2000, EN 50019: 2000, EN 50281-1-1:1998	ГОСТ Р МЭК 60079-0:2011; ГОСТ Р МЭК 61241-0:2007; ГОСТ Р МЭК 61241-1:2004;	ГОСТ Р 51330.0 / 1 / 8 / 14-99 ГОСТ Р МЭК 61241-1-1-2002

	EMERGENCY UNIT		
	ATEX 94/9/EC	GOST-R (RTR / RTN)	GOST-K
EXECUTION	⊕ II 2 G Ex ed IIC T6 ⊕ II 2 D Ex tD A21 T85°C	1Ex ed IIB T6 DIP A21 Ta 85°C	1Ex ed IIB T6 DIP A21 Ta 85°C
INSTALLATION	-40°C ÷ +55°C	-40°C ÷ +55°C	-40°C ÷ +55°C
PROTECTION DEGREE	IP66	IP66	IP66
CERTIFICATE REF.	IMQ 08 ATEX 026X	POCC IT. ME92.B02923	No. 07/43-269
RULES OF COMPLIANCE	EN 60070-0; EN 60079-7; EN 61241-0; EN 61241-1;	ГОСТ Р 51330.9-99 (МЭК 60079-10-95) ГОСТ Р 51330.13-99 (МЭК 60079-14-96) ГОСТ Р МЭК 61241-3-99	ГОСТ Р 51330.0 / 1 / 8 / 14-99 ГОСТ Р МЭК 61241-1-1-2002

Mechanical characteristics

Body	glass fibre reinforced polyester resin self-extinguishing acc. to UL94
Diffuser	U/V resistant polycarbonate - hinged to body
Safety closing	operated by hexagonal key
Gaskets	EPDM 60 rubber suitable for high temperatures and resistant to environments conditions
Internal reflector	white stove enamelled sheet aluminum
Cable entry	ISO-Metric complete with cable glands and plug M20

Electrical characteristics

Power supply	electronic ballast 220÷240V AC/DC 50/60 Hz (p.f. corrected - cos ρ ≥ 0,98)
Lampholders	bi-pin G13 cap
Internal wiring	high-temperature resistant silicon rubber insulation cables
Terminals	suitable up to 4sq/mm cables
Safety feature	EEx de safety switch

ON REQUEST ACCESSORIES:

- Pole mounting kit complete with stainless steel hardware
- Ceiling mounting kit complete with stainless steel hardware
- Pendant mounting kit complete with stainless steel hardware

- Wall/Structure mounting kit complete with stainless steel hardware
- Electronic ballast with voltage supply different than standard
- AUTOTEST electronic system for emergency unit
- Voltage different than standard

AVF Technical data

CODE	LAMP	TEMPERATURE CLASS (GAS)	TEMPERATURE CLASS (DUSTS)	LAMPHOLDER	CABLE ENTRY	EMERGENCY UNIT	AUTONOMY	DETAIL
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FLUORESCENT LIGHTING FIXTURES FOR SINGLE AND TWIN LAMPS - POWER SUPPLY 230V 50/60Hz

AVF 118	1 x 18W	T5	T 70°C	G13	3 x M20 x 1,5	-	-	A
AVF 136	1 x 36W	T5	T 70°C	G13	3 x M20 x 1,5	-	-	A
AVF 218	2 x 18W	T5	T 70°C	G13	3 x M20 x 1,5	-	-	A
AVF 236	2 x 36W	T5	T 70°C	G13	3 x M20 x 1,5	-	-	A

EMERGENCY FLUORESCENT LIGHTING FIXTURES FOR SINGLE AND TWIN LAMPS - POWER SUPPLY 230V 50/60Hz

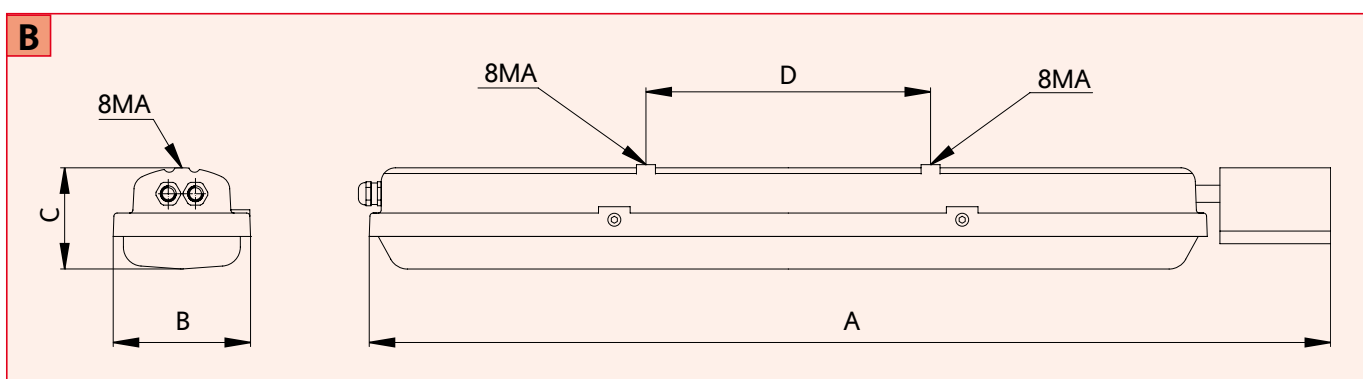
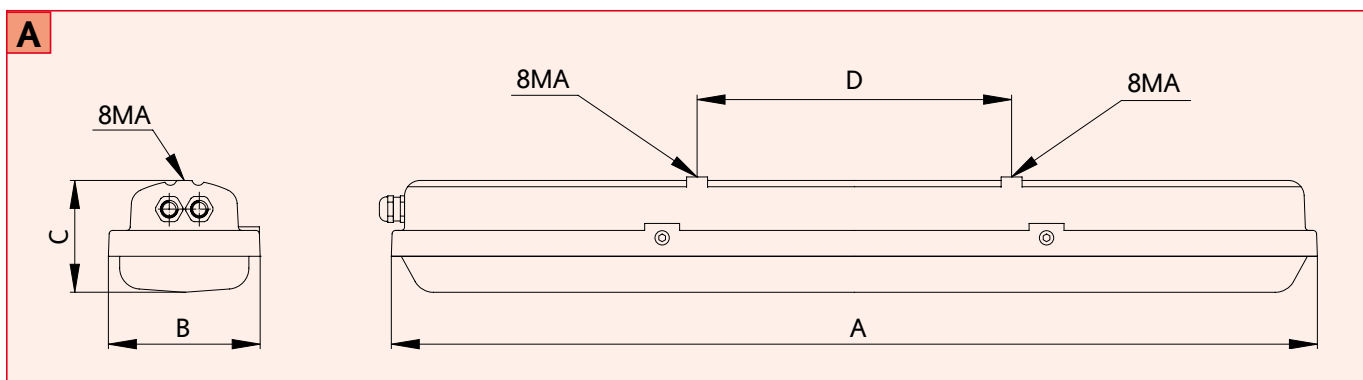
AVF 118-E	1 x 18W	T5	T 70°C	G13	2 x M20 x 1,5	4.8 V - 4Ah	3h	B
AVF 136-E	1 x 36W	T5	T 70°C	G13	2 x M20 x 1,5	4.8 V - 4Ah	3h	B
AVF 218-E	2 x 18W	T5	T 70°C	G13	2 x M20 x 1,5	4.8 V - 4Ah	3h	B
AVF 236-E	2 x 36W	T5	T 70°C	G13	2 x M20 x 1,5	4.8 V - 4Ah	3h	B

AVF Technical features

CODE	A [mm]	B [mm]	C [mm]	D [mm]	WEIGHT [Kg]	CABLE ENTRY	DETAIL
AVF 118	730	215	160	400	6,00	3 x M20 x 1,5	A
AVF 136	1340	215	160	450	6,50	3 x M20 x 1,5	A
AVF 218	730	215	160	400	7,00	3 x M20 x 1,5	A
AVF 236	1340	215	160	450	7,50	3 x M20 x 1,5	A

CODE	A [mm]	B [mm]	C [mm]	D [mm]	WEIGHT [Kg]	CABLE ENTRY	DETAIL
AVF 118-E	925	215	280	400	11,00	2 x M20 x 1,5	B
AVF 136-E	1535	215	280	450	11,50	2 x M20 x 1,5	B
AVF 218-E	925	215	280	400	12,00	2 x M20 x 1,5	B
AVF 236-E	1535	215	280	450	12,50	2 x M20 x 1,5	B

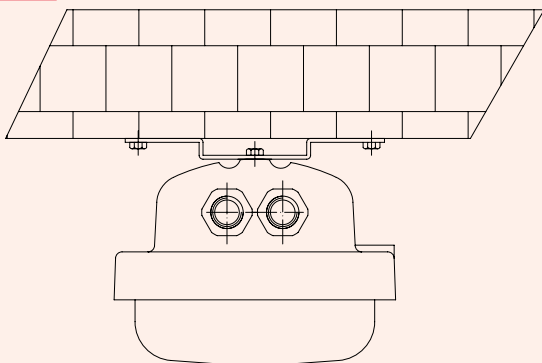
Reference details



AVF Installation and mounting details

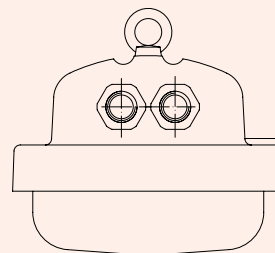
Ceiling mounting

type 1



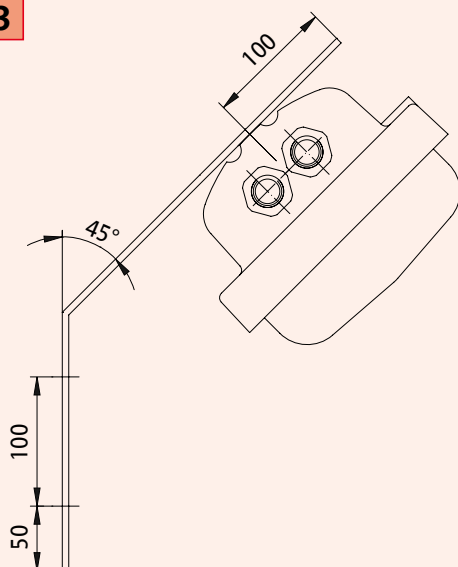
Pendant mounting

type 2



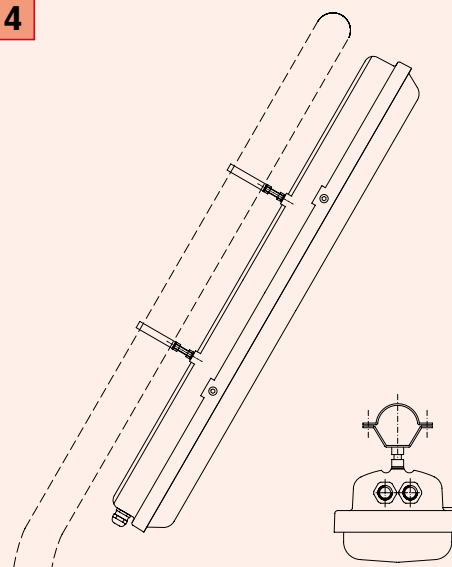
Wall/structure mounting

type 3



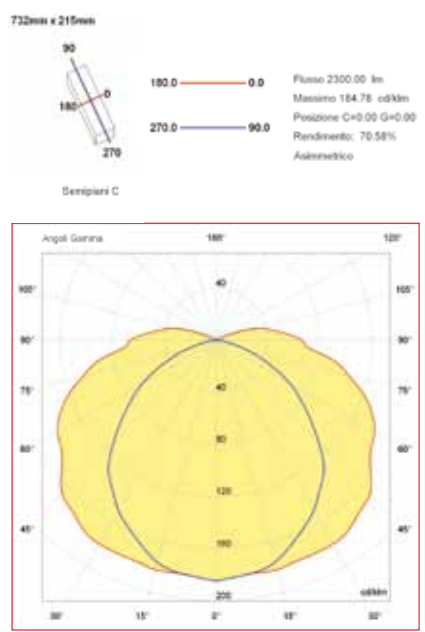
Pole mounting Assemblig detail with pole (typical)

type 4

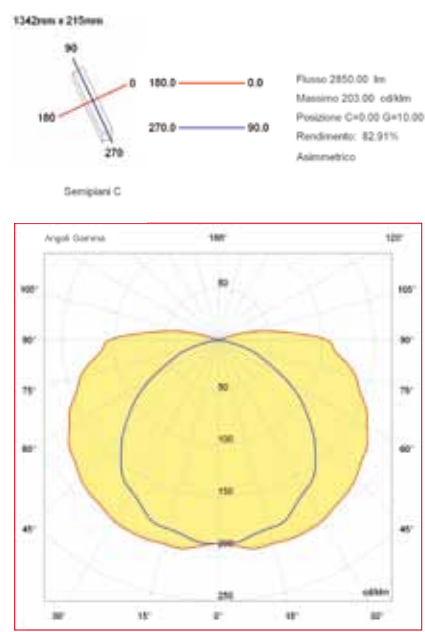


AVF Polar diagrams – photometric data

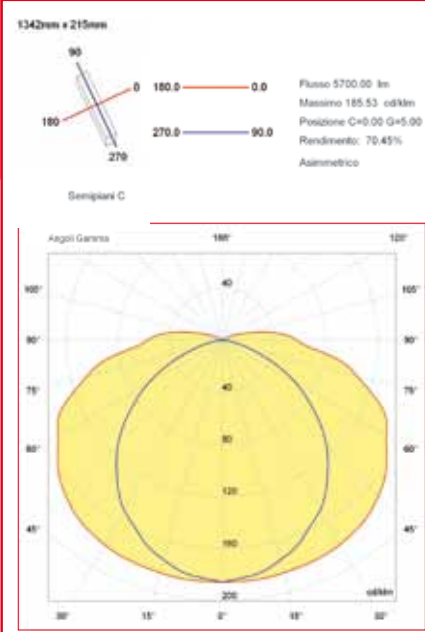
AVF218



AVF136



AVF236



AVF with emergency unit (design and special features)

GENERALITY:

The controller unit system permits to manage in AUTOTEST the verify of emergency unit working
 This system allows the emergency working of every fluorescent tube lamps (NON maintained working)
 The check and the control system has been realized by proper microprocessor which perform the following tests :
 - continuous test on the battery charger working, on the operation of the battery, and on presence of voltage supply
 - duration test in emergency working (every 3 months) with check of battery charge
 - test of emergency working (weekly) with check of right lamp operation

Every information concerning the checks can be managed singly or transmitted by "remote control system" in order to manage complete illumination system test in centralized way.

Multicolor LED indicator in standard working (continuous led light)

ON	ON	ON	ON	ON	ON	ON	ON	ON	Regular operation
ON	ON	ON	ON	ON	ON	ON	ON	ON	Failed battery performance check
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Lack of main power supply
ON	ON	ON	OFF	ON	ON	ON	OFF	ON	Lack of battery

Multicolor LED indicator during test operation (intermittent led light)

ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	Performing lamp test
ON	ON	OFF	ON	ON	OFF	ON	ON	OFF	Performing battery pack test
ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	Failed lamp test

Multicolor LED indicator during batteries recharging phase

ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	24 hours
ON	ON	ON	ON	ON	ON	ON	ON	ON	After 24 hours

AVF On request accessories

CODE	DESCRIPTION	INSTALLATION	MATERIAL
20301.0162	POLE MOUNTING KIT (SIZE 2" DIA.) C/W HARDWARE	TYPE 4	GALVANIZED STEEL
20301.0163	POLE MOUNTING KIT (SIZE 1 1/2" DIA.) C/W HARDWARE	TYPE 4	GALVANIZED STEEL
20301.0165	PENDANT MOUNTING KIT C/W HARDWARE AND EYE-BOLTS	TYPE 2	STAINLESS STEEL
20302.0121	CEILING MOUNTING KIT C/W HARDWARE	TYPE 1	GALVANIZED STEEL
20302.0128	WALL/STRUCTURE MOUNTING KIT C/W HARDWARE	TYPE 3	GALVANIZED STEEL
	AUTOTEST ELECTRONIC SYSTEM	-	-

REMARK:

Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.