



Sammode
Technical lighting since 1927

Lighting

down to -60°C



Expert

in technical lighting

Technical lighting expert, Sammode is also an active partner of industrials since 1927. Answering to high quality and technical standards, our luminaires are designed to be used in extreme conditions.

Fully aware of security and hygiene requirements for production and storage sites in sensitive environments (agri-food, chemistry ...), SAMMODE offers light fittings compliant to principles of quality (HACCP, IFS ...) and resistant to cleaning, disinfection and maintenance procedures.

5 strong points



ROBUST

Resulting from our engineering expertise, our luminaires are designed to be shock resistant (IK10). The robustness of the housing, the quality of selected materials and components are a guarantee of long-term investment.



IMPERVIOUS

The absolute imperviousness (IP68) of our light fittings reduces surface condensation or frost phenomena due to negative temperatures, as well as internal dust accumulation. The tubular shape prevents form external dirt deposit. The luminaires are resistant to high pressure jet cleaning (IP69K).



RESISTANT

The quality of carefully selected materials such as stainless steel or coextruded polycarbonate/methacrylate especially stands chemical aggressions from detergents, oils and hydrocarbons.



EFFICIENT

The technical choices (LED, double or triple envelope around the fluorescent lamps) of our luminaires allow lighting to be efficient in low temperatures. These solutions enable an optimum lighting level whilst reducing the number of light fittings and energy wasted.

SAFE MAINTENANCE

Along with hygiene, security is the priority of our customers. In this concern we have developed easy fixing brackets and rapid removal systems allowing off-site maintenance: production disruptions and risks of object fallings are then limited.

Ranges

down to -60°C

#03 GENERAL LIGHTING

EINSTEIN FERRO

Light fitting with ferromagnetic ballast for fluorescent lamps

PAULI 2GF

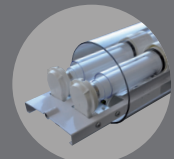
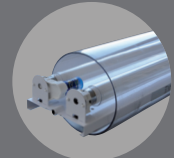
Light fitting with double casing for fluorescent lamps

PAULI 2 TGF

Light fitting with triple casing for fluorescent lamps

CELSIUS 70

LED light fitting for 24V DC voltage



#07 EMERGENCY LIGHTING

COULOMB 100 BT LSC



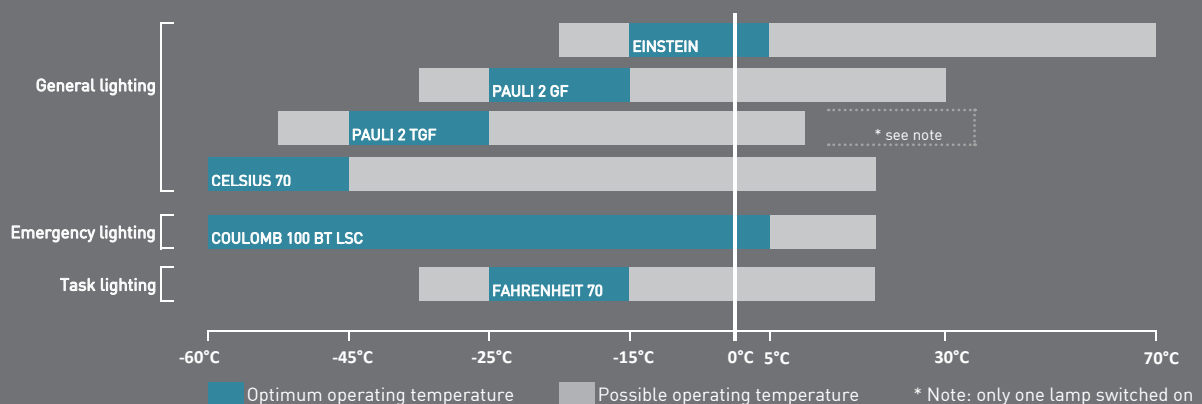
LED emergency lighting for 24V DC voltage

#08 TASK LIGHTING

FAHRENHEIT 70

LED light fitting for 230V AC voltage

SELECTION GUIDE



The optimization of your lighting depends on the selected light fitting and the behaviour of the lamps in low temperatures (see explanation at the end of the leaflet).



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40mm

70mm

100mm

133mm

GENERAL LIGHTING

EINSTEIN



0°C

IMPERVIOUS
TUBULAR LIGHTING
FOR USE IN LOW TEMPERATURES

TUBULAR

Increased mechanical resistance
Easy to clean
Limited dirt accumulation
360° orientation

IMPERVIOUS (IP68/IP69K)

Absolute imperviousness
No internal dust accumulation
Maximum light output
Adapted for pressure cleaning

ROBUST

Mechanical assembly insensitive to external mechanical and/or chemical aggressions

DURABLE

High resistance to shocks and corrosion
Single piece casing, material and components selected to ensure long-term investment

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Polycarbonate	850°C
Coex. polycarbonate/PMMA	650°C
Methacrylate	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Polycarbonate	IK10
Coex. polycarbonate/PMMA	IK10
Methacrylate	IK07
OPERATING TEMPERATURE	
1-lamp version	-20°C +70°C
2-lamp version	-20°C +60°C

DESCRIPTION

HOUSING

- Crystal quality polycarbonate diffuser with anti-UV treatment
- Also available in coextruded polycarbonate/PMMA, in methacrylate and in borosilicate glass
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland (disconnectable plug available)

GEAR TRAY

- Low loss compensated ferromagnetic gear unit (EEI B1) or hot cathode electronic gear unit (EEI A2)
- Internal wiring with silicone isolation braided with glass fibre

REFLECTORS

- White powder-coated gear tray acting as a reflector for general diffused lighting
- Range of technical reflectors in mirror finish aluminium sheeting

INSTALLATION – MAINTENANCE

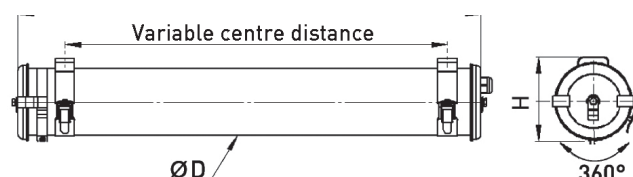
- Connection to 3x2.5 mm² detachable terminal block
- Installation with 2 bolt-fitted stainless steel straps with variable centre distance allowing 360° orientation
- Maintenance: release the 2 closing screws, remove the end cap and extract the gear/reflector unit

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
DIFFUSERS		OPTICS	
Methacrylate diffuser	ME	Extensive reflector	RE
Coex. polycarbonate/PMMA	POME	GEAR UNIT	
CABLE ENTRIES		5-point terminal block for phase balancing	C5P
1 or 2 cable glands in black polyamide		FINISHINGS	
Cable Ø: 5 to 12 mm	113/213	End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 7 to 14 mm	116/216	FIXINGS	
1 or 2 cable glands in nickel brass		Reinforced bolt-fitted fixing straps	BRS
Cable Ø: 5 to 14 mm	113LN/213LN	ACCESSORIES	
Disconnectable plug		Distance piece kit (5 or 20cm)	
Straight IP68 plug lockable with an aluminium threaded ring	PS3		
Solenoid valve type IP65 angled plug	PB3		

MAIN REFERENCES

POWER	DESIGNATION	CODE	OPTICS	L (mm)	WEIGHT (kg)
T8 1-lamp version – without reflector					
1x36W	EIN100 136C G13 PO 113	1501 0020		1307	4,2
1x58W	EIN100 158C G13 PO 113	1501 0030		1607	5,3
T8 2-lamp version – without reflector					
2x36W	EIN133 236C G13 PO 113	1601 0020		1287	5,6
2x58W	EIN133 258C G13 PO 113	1601 0030		1587	7,2



Version	D	H
1 Lamp	100	123
2 Lamps	133	158



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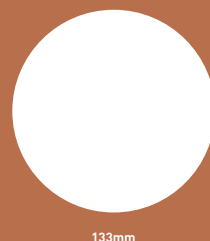
40mm



70mm



100mm



133mm

GENERAL LIGHTING

PAULI 2 GF



-20°C

IMPERVIOUS
TUBULAR LIGHT FITTING
FOR USE IN LOW TEMPERATURES

TUBULAR

Increased mechanical resistance
Easy to clean
Limited dirt accumulation
360° orientation

IMPERVIOUS (IP68/IP69K)

Absolute imperviousness
Favours a constant temperature in the light fitting
No internal dust accumulation
Maximum light output
Suitable for pressure cleaning

ROBUST

Mechanical assembly not sensitive to external mechanical and/or chemical aggression

DURABLE

High resistance to shocks and corrosion
Single piece casing, material and components selected to ensure long-term investment

OPTIMIZED FLOW AT -20°C

Double-casing system recovering heat loss to maintain the tubes at the optimum functioning at -20°C
Use of standard fluorescent tubes

ELECTRICAL CLASS CLASS 1

FIRE RESISTANCE

Polycarbonate	850°C
Coex. polycarbonate/PMMA	650°C
Methacrylate	650°C

PROTECTION IP68/IP69K

SHOCK RESISTANCE

Polycarbonate	IK10
Coex. polycarbonate/PMMA	IK10
Methacrylate IK07	

OPERATING TEMPERATURE

-30°C +30°C

DESCRIPTION

HOUSING

- Ø133 mm crystal quality polycarbonate diffuser with anti-UV treatment
- Also available in coextruded polycarbonate/PMMA and in methacrylate
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland (detachable plug available)
- Possibility for a model with 2 cable entries with a two-tier terminal block for wiring continuity (2 entries on the supply end cap)

GEAR TRAY

- Low loss compensated ferromagnetic gear unit (EEI B1)
- Internal wiring with silicone isolation braided with glass fibre
- Supplied with IRC85 4000K high output

fluorescent tube(s)

- White powder-coated plate acting as a reflector, equipped with 2 T8 fluorescent tubes (58W recommended)
- Double casing system for fluorescent tubes
- Reflector in mirror finish aluminium sheeting available

INSTALLATION – MAINTENANCE

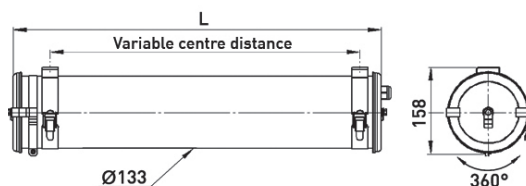
- Connection to 3x2.5 mm² disconnectable terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available as a reinforced model and/or with closure by HSHC screw)
- Maintenance: release the 2 closing screws, remove the end-cap and extract the gear tray

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
DIFFUSERS		OPTICS	
Methacrylate diffuser	ME	Extensive reflector	RE
Coex. polycarbonate/PMMA	POME	GEAR UNIT	
CABLE ENTRIES		5-point terminal block for phase balancing	C5P
1 or 2 cable glands in black polyamide		FINISHINGS	
Cable Ø: 5 to 12 mm	113/213	End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 7 to 14 mm	116/216	FIXINGS	
1 or 2 cable glands in nickel-plated brass		Reinforced bolt-fitted fixing straps	BRS
Cable Ø: 5 to 14 mm	113LN/213LN	ACCESSORIES	
Disconnectable plug		Distance piece kit (5 or 20cm)	
Straight IP68 plug lockable with an aluminium threaded ring	PS3		

MAIN REFERENCES

POWER	DESIGNATION	CODE	OPTICS	L (mm)	WEIGHT (kg)
2x36W	PAU2 GF 236C G13 PO 113	1620 0020		1285	6,2
2x58W	PAU2 GF 258C G13 PO 113	1620 0030		1585	7,7



Sammode



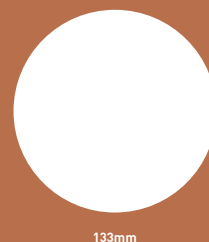
40mm



70mm



100mm



133mm

GENERAL LIGHTING

PAULI 2 TGF



-35°C

IMPERVIOUS
TUBULAR LIGHT FITTING
FOR USE IN LOW TEMPERATURES

TUBULAR

Increased mechanical resistance
Easy to clean
Limited dirt accumulation
360° orientation

IMPERVIOUS (IP68/IP69K)

Absolute imperviousness
Favours a constant temperature in the light fitting
No internal dust accumulation
Maximum light output
Adapted for pressure cleaning

ROBUST

Mechanical assembly not sensitive to external mechanical and/or chemical aggression

DURABLE

High resistance to shocks and corrosion
Single piece casing, material and components selected to ensure long-term investment

OPTIMIZED FLOW AT -35°C

Triple-casing system recovering heat loss to maintain the tubes at the optimum functioning at -35°C
Use of standard fluorescent tubes

DESCRIPTION

HOUSING

- Ø133 mm crystal quality polycarbonate diffuser with anti-UV treatment
- Also available in coextruded polycarbonate/PMMA and in methacrylate
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland (detachable plug available)

GEAR TRAY

- Low loss compensated ferromagnetic gear unit (EEI B1)
- Internal wiring with silicone isolation braided with glass fibre, possible separated output for the tubes if used in positive temperature
- White powder-coated plate for one or two 58W T8 fluorescent tubes (IRC85

4000K high output fluorescent tubes)

- Reflector in mirror finish aluminium sheeting
- Triple casing system for the fluorescent tube

INSTALLATION - MAINTENANCE

- Connection to 5x2.5 mm² disconnectable terminal block with possible separated output for the lamps (compulsory extinction of the lamp when using the luminaire at temperature > 10°C)
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available as a reinforced model and/or with closure by HSHC screw)
- Maintenance: release the 2 closing screws, remove the end-cap and extract the gear tray

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
DIFFUSERS		FINISHINGS	
Methacrylate diffuser	ME	End caps and fixing straps in 316L stainless steel	MR
Coex. polycarbonate diffuser	POME		
CABLE ENTRIES		FIXINGS	
Cable Ø: 5 to 14 mm	113LN/213LN	Reinforced bolt-fitted fixing straps	BRS
Disconnectable plug		ACCESSORIES	
Straight IP68 plug lockable with an aluminium threaded ring	PS5	Distance piece kit (5 or 20cm)	

ELECTRICAL CLASS CLASS 1

FIRE RESISTANCE

Polycarbonate	850°C
Coex. polycarbonate/PMMA	650°C
Methacrylate	650°C

PROTECTION IP68/IP69K

SHOCK RESISTANCE

Polycarbonate	IK10
Coex. polycarbonate/PMMA	IK10
Methacrylate	IK07

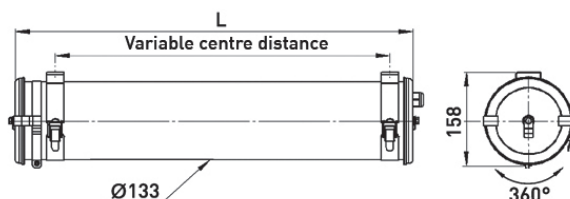
OPERATING TEMPERATURE

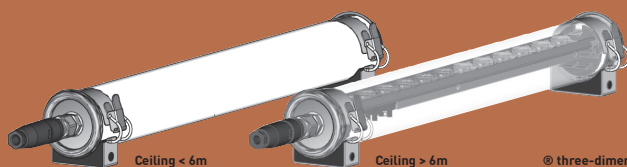
2 lamps on	-50°C +10°C
1 lamp on*	-50°C +30°C

*Separated electric supply for the lamps will be required

MAIN REFERENCES

POWER	DESIGNATION	CODE	OPTICS	L (mm)	WEIGHT (kg)
2x58W	PAU2 TGF 258C G13 PO 113LN RE 1622 0050			1645	7,4





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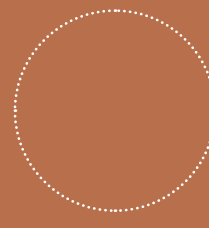
40mm



70mm



100mm



133mm

GENERAL LIGHTING

CELSIUS 70



-50°C

SMALL IMPERVIOUS TUBULAR LIGHT FITTING FOR VERY LOW TEMPERATURES

POWER-ON WITHOUT STABILISATION
Immediately 100% flux at -60°C

TUBULAR

Increased mechanical resistance
Easy to clean
Limited dirt accumulation
360° orientation

IMPERVIOUS (IP68/IP69K)

Absolute imperviousness
No internal dust accumulation
Maximum light output
Adapted for pressure cleaning (IP69K)

SMALL LIGHT FITTING

70 mm diameter
Lighting over the entire length of the fitting

DURABLE

High resistance to corrosion and external mechanical and/or chemical aggression
Robustness of the housing, quality of the materials and components: long-term investment

ELECTRICAL CLASS	CLASS 3
VOLTAGE	24V DC min./26V DC max.
FIRE RESISTANCE	650°C
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-30°C +30°C

DESCRIPTION

HOUSING

- Ø 70 mm coextruded polycarbonate/PMMA diffuser with anti-UV treatment:
- Ceiling up to 6m: satin finish
- Ceiling at 6m and more: crystal quality
- Polycarbonate diffuser available
- 2 lengths:
- 613mm for task lighting
- 1613mm for general lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with straight disconnectable plug (2x1,5mm²) for cables Ø 8-10 mm

GEAR TRAY

- Black powder coated gear tray
- Special low temperature electronic modules developed by Sammode, each with:

- 6 high power LEDs for low temperatures, for crystal quality housing with lenses
- MC printed circuit board
- Resistant components adapted to the industrial applications
- Colour temperature: 4100K

INSTALLATION - MAINTENANCE

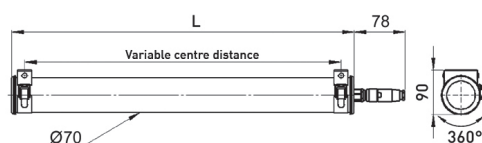
- Connection with disconnectable plug 2x1,5 mm² (we recommend the use of low temperature cable with silicone isolation)
- Fixing with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation
- Maintenance: release the 2 closing screws, remove the end-cap and extract the gear tray

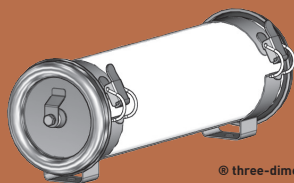
OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
FINISHINGS		Ceiling strap (20cm distance to the ceiling)	B20S
End caps and fixing straps in 316L stainless steel	MR	ACCESSORIES	
FIXINGS		Distance piece kit (5 or 20cm)	
Wall strap (5cm distance to the wall)	B05S		

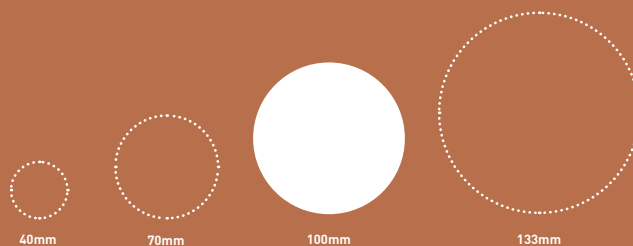
MAIN REFERENCES

POWER 24V/26V DC	DESIGNATION	CODE	OPTICS	LIGHTFLUX (lm)	L (mm)	WEIGHT (kg)
Ceiling <6m						
17W/18W	CEL70 24DC 2M6L10 POME PS2 SA	6430 0050		741	613	1,5
50W/55W	CEL70 24DC 6M6L10 POME PS2 SA	6430 0060		2224	1613	3
Ceiling >6m						
17W/18W	CEL70 24DC 2M6L10 POME PS2 W	6430 0070		838	613	1,5
50W/55W	CEL70 24DC 6M6L10 POME PS2 W	6430 0080		2514	1613	3





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EMERGENCY LIGHTING

COULOMB 100 BT LSC

IMPERVIOUS TUBULAR
SAFETY LIGHT FITTING FOR 24V DC
CENTRAL BATTERY SYSTEMSAFETY LIGHTING
EN 60598-2-22
NF AEASFor environmental and
evacuation lighting
Permanent and temporary
Allocated output: 406 lmTUBULAR
Increased mechanical resistance
Easy to clean
Limited dirt accumulation
360° orientationIMPERVIOUS (IP68)
Absolute imperviousness
No internal dust accumulation
Maximum light output
Adapted for pressure cleaningDURABLE
High resistance to shocks and corrosion
Single-piece housing, materials and
components selected to ensure
long-term investment

ELECTRICAL CLASS	CLASS 3
ALLOCATED OUTPUT	406LM
VOLTAGE	24 V DC
FIRE RESISTANCE	850°C
PROTECTION	IP68
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-60°C +25°C

DESCRIPTION

HOUSING

- Ø 100mm satin finish polycarbonate diffuser with anti-UV treatment
- End caps ½ ring press-formed in 304L stainless steel (316L also available)
- Gaskets molded in EPDM
- Cable entry with nickel-coated brass cable gland (disconnectable plug option)

GEAR TRAY

- Black powder gear tray
- Extreme cold electronic module developed by SAMMODE equipped of - 5 power LED for very low temperature functioning

- SMI printed circuit (metal-coated substrate)
- robust components specific to industrial market
- Color temperature: 4100K

INSTALLATION – MAINTENANCE

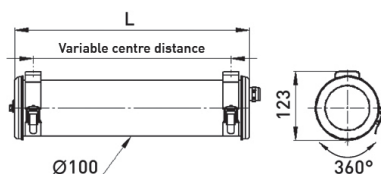
- Connection to 2x2,5mm² terminal block
- Quick installation with 2 bolt-fitted stainless steel straps with variable center distance allowing 360° orientation
- Maintenance by removal of the end cap
- Compliant with EN 60 598-2-22 and NF AEAS

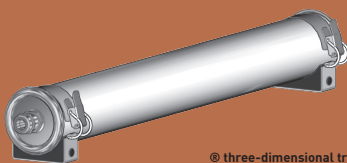
OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		attachment	MR
Disconnectable plug		FIXINGS	
Straight IP68 plug, lockable with an aluminium threaded ring	PS2	Reinforced bolt-fitted attachment	BRS
FINISHINGS		ACCESSORIES	
End caps and stainless steel 316L		Distance piece kit (5 or 20cm)	

MAIN REFERENCES

CONSUMPTION	DESIGNATION	CODE	LIGHTFLUX (lm)	L (mm)	WEIGHT (kg)
	With cable gland				
10W	COUL100 BT LSC LED 24DC 113LN	1836 0010	406	380	1,0
	With disconnectable plug				
10W	COUL100 BT LSC LED 24DC PS2	1836 0020	406	380	1,0





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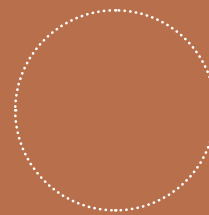
40mm



70mm



100mm



133mm

TASK LIGHTING

FAHRENHEIT 70



-20°C

IMPERVIOUS COMPACT TUBULAR
LIGHT FITTING FOR USE IN
LOW TEMPERATURES

SMALL FITTINGS

Reduced size

70 mm diameter

Lighting over the entire length

INSTANT SWITCHING-ON

Instant full-flow switching-on

TUBULAR

Increased mechanical resistance

Easy to clean

Limited dirt accumulation

360° orientation

IMPERVIOUS (IP68/IP69K)

Absolute imperviousness

No internal dust accumulation

Maximum light output

Adapted for pressure cleaning

DURABLE

High resistance to shocks and corrosion

Single-piece housing, materials and components selected to ensure long-term investment

DESCRIPTION

HOUSING

- Ø 70mm satin finish diffuser coextruded in polycarbonate/methacrylate
- End caps ½ ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with nickel-coated brass cable gland for cable Ø 5 to 12 mm (disconnectable plug option)

GEAR TRAY

- Black powder gear tray with 120-240V/24V DC electronic converter
- Extreme cold electronic modules developed by SAMMODE equipped of:
 - 6 power LED for very low temperature functioning
 - SMI printed circuit (metal-coated substrate)

- Robust components specific to industrial market
- Colour temperature: 4100K

INSTALLATION – MAINTENANCE

- Connection to 2x2,5mm² terminal block
- Quick installation with 2 bolt-fitted stainless steel straps with variable centre distance allowing 360° orientation
- Alternative version available with toolfree opening and closing
- Maintenance by removal of the end cap and the gear tray

OPTIONS

DESCRIPTION

OPTION CODE

FINISHINGS

End caps and fixing straps in 316L stainless steel MR
Closing without tools F50

DESCRIPTION

OPTION CODE

DISCONNECTABLE PLUG

Straight IP68 plug lockable with an aluminium threaded ring PS2

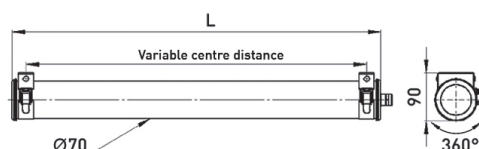
ACCESSORIES

Distance piece kit (5 or 20cm)

ELECTRIC CLASS	CLASS 2
TENSION SUPPLY	120-240V AC
FIRE RESISTANCE	650°C
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-30°C +25°C

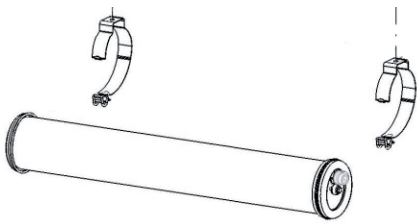
MAIN REFERENCES

POWER	DESIGNATION	CODE	OPTICS	LIGHTFLUX (lm)	L (mm)	WEIGHT (kg)
	With cable gland					
21W	FAH70 2M6L10 POME 113 SA	6440 0010		741	613	1,3
30W	FAH70 3M6L10 POME 113 SA	6440 0020		1112	863	1,8
	With disconnectable plug					
21W	FAH70 2M6L10 POME PS2 SA	6440 0030		741	613	1,3
30W	FAH70 3M6L10 POME PS2 SA	6440 0040		1112	863	1,8



Easy maintenance

QUICK RELEASE



STANDARD BOLT-FITTED FIXING STRAPS

DESCRIPTION

Stainless steel bolt-fitted fixing straps for quick opening and closing, compatible with cable suspension kits

CHARACTERISTICS

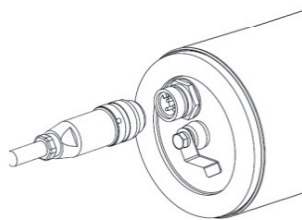
Materials:
304L stainless steel

OPTION CODE

Supplied with the luminaire



EASY DISCONNECTION*



IMPERVIOUS IP68 PLUG LOCKABLE WITH A RING

DESCRIPTION

Fittings supplied with a cable entry via a straight disconnectable 3x1.5 mm² plug, lockable with a threaded ring.

CHARACTERISTICS

Materials:

- Fixed connector in nickel-plated brass
- Housing in polyamide 6
- Locking ring in black anodised aluminium

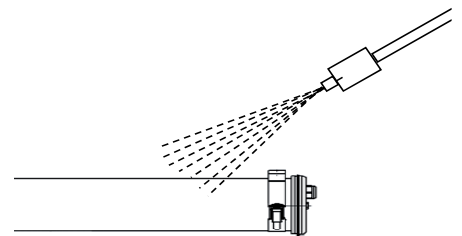
Protection: IP68

*OPTION CODE

Class 1: PS3
Class 2: PS2



RESISTANT TO DETERGENTS*



COEX. POLYCARBONATE/PMMA DIFFUSER

DESCRIPTION

Crystal quality tubular housing with anti-UV treatment Ø70, 100 or 133 in coextruded polycarbonate/methacrylate

CHARACTERISTICS

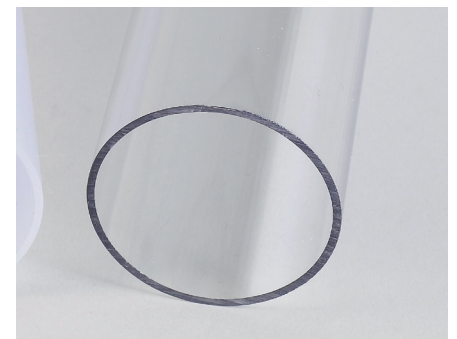
Materials

- Methacrylate (PMMA) for resistance to detergents, oils and greases
- Polycarbonate for mechanical performance

Shock-resistance: IK10
Fire-resistance: 650°C

*OPTION CODE

POME



Technical elements

SOURCES AND TEMPERATURES

LIGHTING FOR LOW TEMPERATURES (0°C to -40°C)

Lighting for cold rooms requires the use of luminaires specifically designed to function in very low temperatures, however:

- At -20°C, a bare fluorescent tube loses more than 80% of its luminous flux
- At -30°C, the flux produced by the luminaire in a ventilated atmosphere can be 50% lower than in a quiet atmosphere

SAMMODE TECHNOLOGY

Our luminaires for fluorescent tubes are designed to reduce heat loss as much as possible so as to maintain the tubes at its optimum operating temperature. Using the intrinsic heat conservation of the lamp and its fitting, this system is even more efficient when the source is powerful.

For task lighting requiring compact luminaires and low powers, we recommend the LED technology.

LIGHTING FOR EXTREME COLD (down to -60°C)

Between -40°C and -60°C, the results of traditional lighting solutions are unsatisfying:

- Fluorescent tubes are not efficient enough and need several minutes to turn on
- Filament lamps consume a lot of energy and have a very limited lifetime (<1000h) as well as a very low resistance to vibrations
- Standard electronic supplies do not function anymore

SAMMODE TECHNOLOGY

Using the LED technology, we have created the range CELSIUS 70 for general lighting and the COULOMB 100 BT LSC for emergency lighting, developing our own 24V DC electronic modules. These modules are robust enough to resist to an industrial environment (resistance to vibrations) and are especially designed for an optimum performance between -40°C and -60°C.

RECOMMENDED LIGHTING TABLE (EXTRACT FROM STANDARD EN 12464)

TYPE OF INTERIOR, TASK OR ACTIVITY	E (lx)	TYPE OF INTERIOR, TASK OR ACTIVITY	E (lx)
Stores and warehouses	100	Food commodities and food industries	
Maintenance, packaging and dispatch areas	300	Product sorting and washing, brushing, brewing and packaging	300
Shelf storage areas		Working areas and critical areas in slaughterhouses, butchers, dairies, flour mills and filtering areas in sugar refineries	500
Unoccupied central aisles	20	Cutting and sorting of fruit and vegetables	300
Occupied central aisles	150	Manufacture of ready meals, work in kitchens, manufacture of cigars and cigarettes	500
Management or control station	150	Checking of glasses and bottles, inspecting of products, cutting, sorting and decoration	500
Food commodities and food industries		Laboratories	500
Working areas in:		Colour inspection	1000
- breweries, malt houses,		Changing rooms	200
- for washing, barrel-filling, cleaning, sieving, peeling			
- cooking in canned food and chocolate factories,			
- working areas in sugar refineries			
- for drying and work with raw tobacco, cellar fermentation	200		

For an optimized installation and to make the choice of the luminaires according to the site and its constraints, please contact SAMMODE or our local representative.

Our clients

ARDO FRANCE • ARDO BELGIUM • BEURRIERE DE RETIERS
• BIGARD • BIO SPRINGER • BONDUELLE FRANCE
• BONDUELLE HUNGARY • BONGRAIN • BRESSOR •
BRIOCHE PASQUIER • CARGILL • CEPHALON FRANCE •
CHR HANSEN • CLAUGER • COMPAGNIE DES FROMAGES &
RICHESMONT • DANIEL DESSAINT TRAITEUR • DANISCO •
DAVIGEL • DELMOTTE • DOUX FRAIS • ELVIR • ENTREMONT
ALLIANCE • ETOILE DU VERCORS • EURIAL • FARM
FRITES • FARMOR • FAVID • FRANCE CHAMPIGNON •
FROMAGERE DE CHARCHIGNE • FROMAGERE DE LONS LE
SAUNIER • FROMAGERE DE SAINT MACLOU • FROMAGERE
DE STE CECILE • FROMAGERIE D'AUXON • FROMAGERIE
DE BEAUZAC • FROMAGERIE DE NEUFCHATEAU •
FROMAGERIE DES HAUTS DE SAVOIE • FROMAGERIE
D'ETEAX • FROMAGERIE DE LIVAROT • FROMAGERIE DU
PAYS DE BRAY • FROMAGERIE DU VELAY • FROMAGERIE
MILLERET • FROMAGERIE RAMBOL • FROMAGERIES BEL
• FROMAGERIES DES CHAUMES • FROMAGERIES F. PAUL-
RENARD • FROMAGERIES PERREAULT • GASTRONOME
FALLERON • GASTRONOME LE BIGNON • GEA AEROFREEZE
MATAL • GELAGRI • GLAC • GOUET BAKING SYSTEM • GRAND
PORT MARITIME NANTES ST NAZAIRE • GROUPE ARRIVE
• HAAGEN-DAZS • HARIBO • INSTITUT DE SELECTION
ANIMALE • INTERMARCHE • KERLYS • KERMAD • LABEYRIE
• LACTALIS • LACTALIS NESTLE ULTRA FRAIS • LAITERIE DU
GATEAU • LAITERIE DU VAL D'ANCENIS • LAITERIE ST PERE •
LAITIERE DE BAYEUX • LAITIERE DE MAYENNE • MADRANGE
• MAISON PRUNIER • MAITRE PRUNILLE • MALTERIES
FRANCO-BELGES • MALTEUROP • MARS CHOCOLAT FRANCE
• MARS PETCARE & FOOD FRANCE • MC CAIN ALIMENTAIRE
• MONLIZ PORTUGAL • MONT BLANC • MORINA PATISSIER
• MYDIBEL • NESTLE GRAND FROID • NESTLE PRODUITS
LAITIERS FRAIS • NOUVELLE FROMAGERIE DE VAUDES
• NOVANDIE • PATISSERIE PASQUIER SUD • PATURAGES
COMTOIS • PROLAINAT • SALAISONS CELTIQUES • SAMIFI
• SCHWAN'S FRANCE • SENOBLE • SERAC • SICA DE LA
VALLÉE DE LA LYS • SNAC • SOCIETE FROMAGERE DE ST
GEORGES • SOCOPA VIANDES • SOPARVOL INDUSTRIE
SEVRIENNE • SPANGHERO • STEVENS KOELTECHNIEK
INDUSTRIAL REFRIGERATION BELGIUM • UNITE CENTRALE
DE PRODUCTION ALIMENTAIRE HOSPITALIERE DE ST PRIEST
• UFM SURGELES • VARACHAUX • ZENTIS HUNGARY • ...



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