



Sammode
Technical lighting since 1927



Lighting in

Atex Zones

2, 21 and 22



THEY TRUST US

ACETEX CHIMIE • ADISSEO • ADNATCO (Abu Dhabi National Tanker Company) • AIRBUS • BRITISH PETROLEUM • EURENCO • Grand Port Maritime de Dunkerque • MISC (Malaysia International Shipping Corporation Berhad) • PANSN (Port Atlantique Nantes Saint-Nazaire) • PERENCO • PETRONAS • QAPCO (Qatar Petrochemical Company) • SANOFI • TEREOS • TOTAL and others



Expert

in technical lighting

In addition to compliance with the requirements of international standards, lighting areas classified as ATEX require luminaires designed according to strict criteria of robustness and sealing to withstand extreme environments which typically have explosive atmospheres as well. Based on our experience and our knowledge of the specific nature of our clients' businesses (chemical, petrochemical, onshore and offshore installations, water treatment, etc.) our ATEX luminaire ranges have been designed specifically for this purpose.

We guarantee quality and performance



RESISTANT

The quality of the chosen materials and our strict construction principles make our luminaires exceptionally resistant to polluted and corrosive environments and climatic influences such as ageing.



IMPERVIOUS (IP68/IP69K)

The absolute sealing (IP68) of our luminaires maintains their performance throughout their lifetime. Constructed to be hermetically sealed, they are weatherproof (heavy seas, spray, etc.) as well as impervious to cleaning with high pressure jets (IP69K).



INCREASE SERVICE INTERVALS

We offer a high resistance lighting solution with long life, especially suitable for areas that are difficult to reach. We thus guarantee our customers a return on their investment and reduced maintenance costs.



EFFICIENT

Our products include high-efficiency (lm/W) LED modules to reduce the energy consumption associated with lighting. The chosen technology ensures efficient operation even at very low temperatures.



5 YEAR WARRANTY

Sammode embodies its commitment to the quality and sustainability of its luminaires by offering a guarantee for its tubular ranges that exceeds the legal warranty. A Sammode product isn't a consumable; it's an investment!

OUR COMMITMENT : TO WITHSTAND YOUR AGGRESSIVE ENVIRONMENT

Conditions in ATEX environments are often aggressive for installations and equipment (corrosive saline environments, UV, etc.). These constraints result in premature deterioration of materials that could lead to the spontaneous breakage of equipment. For this reason SAMMODE, with more than 40 years of experience in the design and use of ATEX luminaires, offers a selection of materials for your applications.

STAINLESS STEEL

Sammode offers two grades of stainless steel:

- 304L grade stainless steel suitable for most industrial applications
- 316L marine stainless steel (MR option) that solves problems of use in extreme conditions, particularly in corrosive ones such as marine environments.



COEXTRUDED POLYCARBONATE / PMMA (POME)

Combining the chemical resistance of methacrylate with the strength of polycarbonate (IK10), our POME diffuser is recommended for applications that require high resistance to mechanical shock. Thanks to its outer layer of methacrylate, which acts as barrier against UV rays and avoids yellowing, it is ideal for outdoor use.



BOROSILICATE GLASS DIFFUSER (PY)

Borosilicate glass is recommended for applications requiring exceptional chemical (acid environments, hydrocarbons, etc.) or abrasion (coal dust, cement, etc.) resistance. Because of the ease with which it can be cleaned it is recommended for environments such as paint shops.

PRINCIPLES OF CONSTRUCTION TO STAND THE TEST OF TIME

Decades of experience and expertise have enabled us to develop design principles (tubular structure, single-piece housing, closure systems, fixing systems, axial clamping by stainless steel screws, etc.) all of which guarantee an absolute seal and foolproof mechanical construction. Our light fittings demonstrate all their qualities in demanding environments.

LUMINAIRES FOR HARSH ENVIRONMENTS

Luminaires installed in «harsh environments» can be exposed to strong and permanent vibration, environmental pollution by hydrocarbons, corrosion due to salt spray, abrasion, etc.

Method of construction:

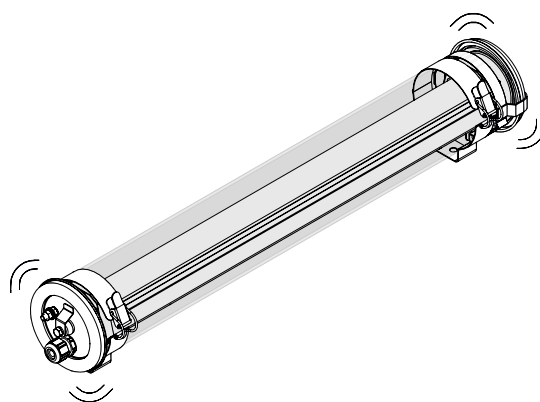
Monobloc enclosure with high mechanical and chemical resistance

Long-term sealing maintained by axial clamping

Materials:

Diffusers: Borosilicate glass (PY) or co-extruded polycarbonate/PMMA (POME)

External metallic parts: 304L or 316L stainless steel (MR option)



LUMINAIRES FOR NORMAL ENVIRONMENTS

Luminaires installed in «normal environments» may be exposed to shock, weather, humid atmospheres, washing with high pressure jets, UV, etc.

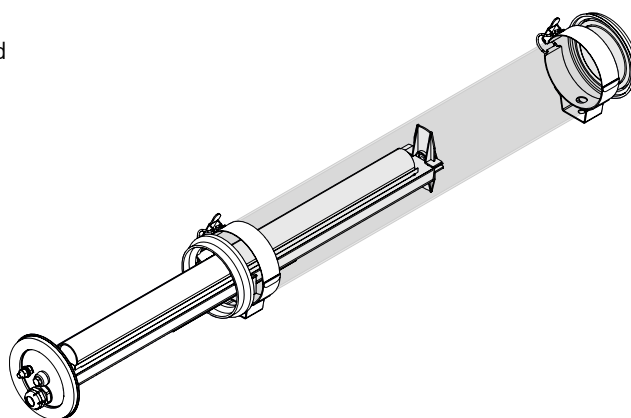
Method of construction:

Single-piece housing with reinforced seal
(Patented) drawer opening system

Materials:

Diffusers: Co-extruded polycarbonate/PMMA (POME)

External metallic parts: 304L or 316L stainless steel
(MR option)



Our design office is available to help you choose the best product to meet your requirements.

DEFINITIONS

General lighting

The high power of these products makes them especially suitable for lighting large areas with significant levels of illumination, acting as natural replacements for conventional fluorescent solutions (1 x 36 W, 2 x 36 W, etc).

Task lighting

Because of their small size, these product lines can be fitted in confined spaces and easily pointed at the area to be lit. They offer the best compromise between size and the right amount of light.

Low temperatures

These products are specifically designed for operation over a wide temperature range (-40 °C to + 40 °C) without any difference in their service life. The selected LED technology guarantees immediate 100% light output and efficient operation even at very low temperatures.

ZONE CLASSIFICATION

Gas and fumes

Zone 2

Location where an explosive atmosphere consisting of a mixture of air with flammable substances in the form of a gas, fumes or a mist is not likely to occur in normal operation but, if it does occur, is only short-lived.

Dust

Zone 21

Location where a hazardous explosive atmosphere in the form of a cloud of combustible dust may occur from time to time during normal operation.

Zone 22

Location where a hazardous explosive atmosphere in the form of a cloud of combustible dust is not likely to occur in normal operation but, if it does occur, is only short-lived.

PROTECTION MODES

Protection mode “n”

Electrical equipment that is designed to make it impossible, in normal operation, for any external source of ignition (spark, hot surface) to occur. Its temperature class takes into account the maximum surface temperature of the outer housing.

ATEX lighting solutions that stand the test of time



SELECTION GUIDE

LED


	Product	Flux
GENERAL LIGHTING		
Normal environments	Jamin 100	2775lm to 4625lm
	Jamin 133	5550lm to 9250lm
Harsh environments	Boyle 100	2775lm to 4625lm
	Boyle 133	5550lm to 9250lm
Low temperatures 	Hutton 100	2775lm to 4625lm
	Hutton 133	5550lm to 9250lm
TASK LIGHTING		
Normal environments	Jamin 100	1850lm
Harsh environments	Boyle 100	1850lm
Low temperatures 	Hutton 100	1850lm



Général lighting

Particularly powerful, these products help illuminate large spaces with significant levels of illumination. They are designed to act as replacements for a conventional fluorescent solutions (1 x 36 W, 2 x 36 W, etc.) , providing identical illumination with reduced energy consumption.

Selection guide

	Product	Flux	Glass diffuser	Coextruded diffuser
GENERAL LIGHTING				
Normal environments	Jamin 100	2775lm to 4625lm		x
	Jamin 133	5550lm to 9250lm		x
Harsh environments	Boyle 100	2775lm to 4625lm	x	x
	Boyle 133	5550lm to 9250lm	x	x
Low temperatures 	Hutton 100	2775lm to 4625lm	x	x
	Hutton 133	5550lm to 9250lm	x	x



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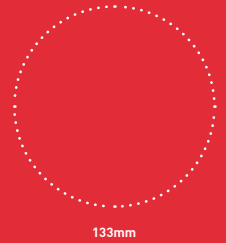
40mm



70mm



100mm



133mm

ZONES 2, 21 AND 22 - EASY MAINTENANCE - GENERAL LIGHTING -20°C/40°C - LED - 2775 TO 4625 LM

JAMIN 100

EASY MAINTENANCE IMPERVIOUS TUBULAR LIGHT FITTING FOR EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition over the entire temperature range of use
Designed for repeated switching on and off

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

EASY MAINTENANCE

Easy opening and closing with just one screw

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm coextruded polycarbonate/ PMMA diffuser for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

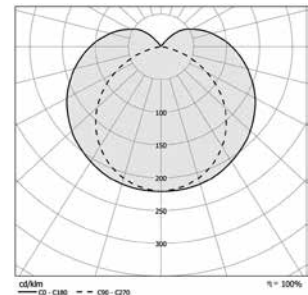
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: remove the end-cap and slide the guided gear tray (patented system)
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	650°C
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-20°C +40°C



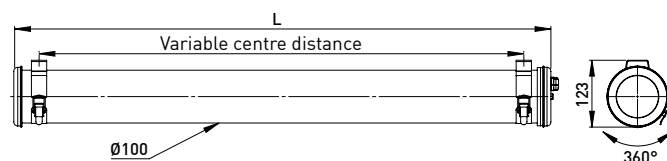
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
		Equivalent to 1x36W T8					
24W	2775	JAM100 13H830 POME 113	1987 0030		3000	1018	2,9
24W	2775	JAM100 13H840 POME 113	1987 0040		4000	1018	2,9
		Equivalent to 1x58W T8					
40W	4625	JAM100 15H830 POME 113	1987 0050		3000	1618	4,2
40W	4625	JAM100 15H840 POME 113	1987 0060		4000	1618	4,2

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



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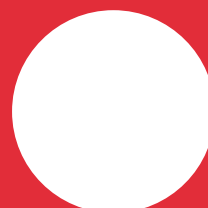
40mm



70mm



100mm



133mm

ZONES 2, 21 AND 22 - EASY MAINTENANCE - GENERAL LIGHTING -20°C/40°C - LED - 5550 TO 9250 LM

JAMIN 133

EASY MAINTENANCE IMPERVIOUS TUBULAR LIGHT FITTING FOR EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance

Instantaneous full light output on ignition over the entire temperature range of use

Designed for repeated switching on and off

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

EASY MAINTENANCE

Easy opening and closing with just one screw

DURABLE

High resistance to shocks and corrosion

Single piece casing, material and

components selected to ensure long-term investment

DESCRIPTION

HOUSING

- Ø133 mm coextruded polycarbonate/ PMMA diffuser for chemically aggressive environments environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

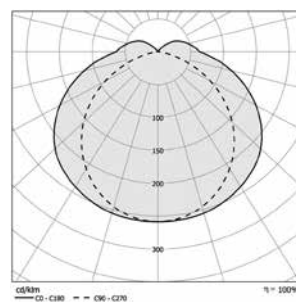
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: remove the end-cap and slide the guided gear tray (patented system)
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	650°C
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-20°C +40°C



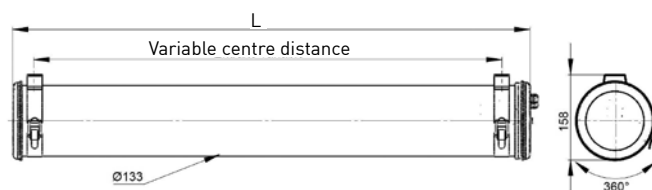
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)L (mm)		WEIGHT (kg)
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
Equivalent to 2x36W T8							
48W	5550	JAM133 23H830 POME 113	1988 0010		3000	995	3,9
48W	5550	JAM133 23H840 POME 113	1988 0020		4000	995	3,9
Equivalent to 2x58W T8							
80W	9250	JAM133 25H830 POME 113	1988 0030		3000	1595	5,5
80W	9250	JAM133 25H840 POME 113	1988 0040		4000	1595	5,5

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



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40mm



70mm



100mm



133mm

ZONES 2, 21 AND 22 - INCREASED RESISTANCE - GENERAL LIGHTING -20°C/40°C - LED - 2775 TO 4625 LM

BOYLE 100

IMPERVIOUS TUBULAR LIGHT FITTING FOR DIFFICULT EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition
over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

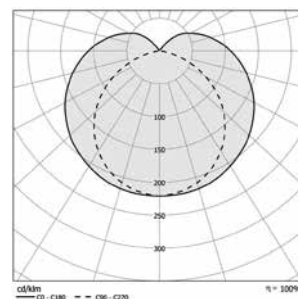
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: release the 2 closing screws, remove the end cap and extract the gear
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-20°C +40°C



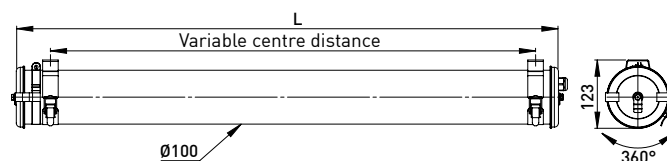
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





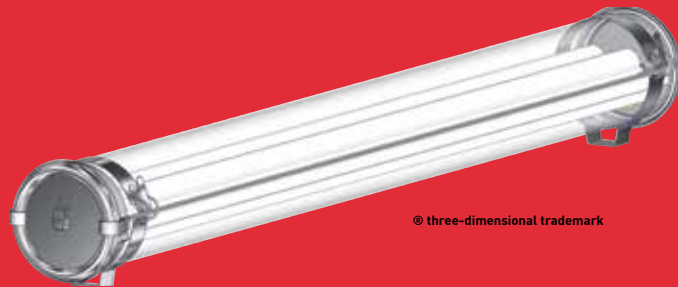
MAIN REFERENCES

				COLOUR			
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K L (mm)	WEIGHT (kg)]	
VERSIONS WITH BOROSILICATE GLASS HOUSING							
		Equivalent to 1x36W T8					
24W	2775	BOY100 13H830 PY 113	1983 0050		3000	1007	4,9
24W	2775	BOY100 13H840 PY 113	1983 0060		4000	1007	4,9
		Equivalent to 1x58W T8					
40W	4625	BOY100 15H830 PY 113	1983 0070		3000	1607	7,6
40W	4625	BOY100 15H840 PY 113	1983 0080		4000	1607	7,6
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
		Equivalent to 1x36W T8					
24W	2775	BOY100 13H830 POME 113	1983 0090		3000	1007	3,0
24W	2775	BOY100 13H840 POME 113	1983 0100		4000	1007	3,0
		Equivalent au 1x58W T8					
40W	4625	BOY100 15H830 POME 113	1983 0110		3000	1607	4,3
40W	4625	BOY100 15H840 POME 113	1983 0120		4000	1607	4,3

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



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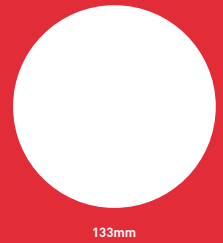
40mm



70mm



100mm



133mm

ZONES 2, 21 AND 22 - INCREASED RESISTANCE - GENERAL LIGHTING -20°C/40°C - LED - 5550 TO 9250 LM

BOYLE 133

IMPERVIOUS LIGHT FITTING FOR DIFFICULT EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition
over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø135 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

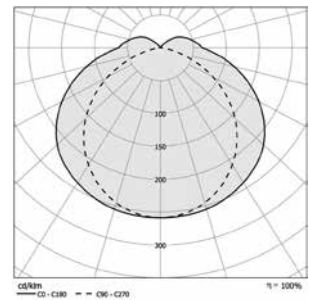
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: release the 2 closing screws, remove the end cap and extract the gear
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-20°C +40°C



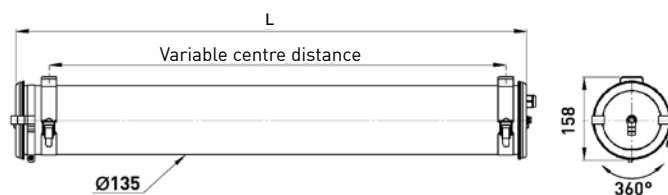
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH BOROSILICATE GLASS HOUSING							
		Equivalent to 2x36W T8					
48W	5550	BOY133 23H830 PY 113	1984 0010		3000	987	8,3
48W	5550	BOY133 23H840 PY 113	1984 0020		4000	987	8,3
		Equivalent to 2x58W T8					
80W	9250	BOY133 25H830 PY 113	1984 0030		3000	1587	10,5
80W	9250	BOY133 25H840 PY 113	1984 0040		4000	1587	10,5
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
		Equivalent to 2x36W T8					
48W	5550	BOY133 23H830 POME 113	1984 0050		3000	987	4,2
48W	5550	BOY133 23H840 POME 113	1984 0060		4000	987	4,2
		Equivalent to 2x58W T8					
80W	9250	BOY133 25H830 POME 113	1984 0070		3000	1587	5,8
80W	9250	BOY133 25H840 POME 113	1984 0080		4000	1587	5,8

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



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40mm

70mm

100mm

133mm

ZONES 2, 21 AND 22 - INCREASED RESISTANCE - GENERAL LIGHTING -40°C/40°C - LED - 2775 TO 4625 LM

HUTTON 100

IMPERVIOUS TUBULAR LUMINAIRE FOR DEMANDING EXPLOSIVE ENVIRONMENTS WITH WIDE OPERATING TEMPERATURE RANGE

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in silicone
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

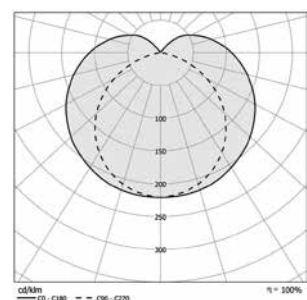
GEAR TRAY WITH LED

- White powder coated gear tray
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output, specifically designed for operation over a wide temperature range

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² 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
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-40°C +40°C



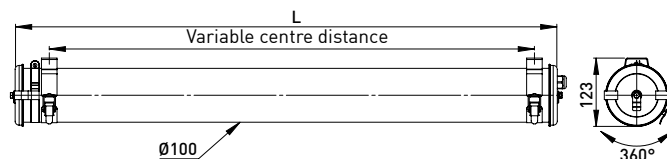
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH BOROSILICATE GLASS HOUSING							
		Equivalent to 1x36W T8					
24W	2775	HUT100 13H830 PY 113	1985 0050		3000	1007	5,1
24W	2775	HUT100 13H840 PY 113	1985 0060		4000	1007	5,1
		Equivalent to 1x58W T8					
40W	4625	HUT100 15H830 PY 113	1985 0070		3000	1607	7,8
40W	4625	HUT100 15H840 PY 113	1985 0080		4000	1607	7,8
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
		Equivalent to 1x36W T8					
24W	2775	HUT100 13H830 POME 113	1985 0090		3000	1007	3,2
24W	2775	HUT100 13H840 POME 113	1985 0100		4000	1007	3,2
		Equivalent to 1x58W T8					
40W	4625	HUT100 15H830 POME 113	1985 0110		3000	1607	4,5
40W	4625	HUT100 15H840 POME 113	1985 0120		4000	1607	4,5

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		[*Tamper-resistant Torx screw on request]	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



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40mm



70mm



100mm



133mm

ZONES 2, 21 AND 22 - INCREASED RESISTANCE - GENERAL LIGHTING -40°C/40°C - LED - 5550 TO 9250 LM

HUTTON 133

IMPERVIOUS TUBULAR LUMINAIRE FOR DEMANDING EXPLOSIVE ENVIRONMENTS WITH WIDE OPERATING TEMPERATURE RANGE

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø135 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in silicone
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

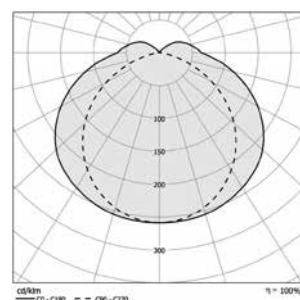
GEAR TRAY WITH LED

- White powder coated gear tray
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output, specifically designed for operation over a wide temperature range

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² 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
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-40°C +40°C



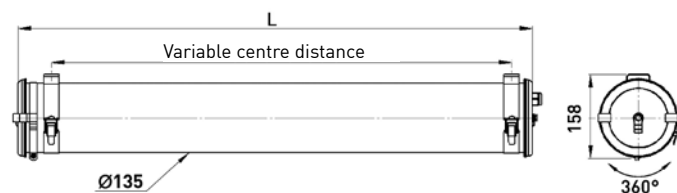
ZONES 2, 21, 22

CE 0080

II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	COLOUR TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH BOROSILICATE GLASS HOUSING							
		Equivalent to 2x36W T8					
48W	5550	HUT133 23H830 PY 113	1986 0010		3000	987	8,5
48W	5550	HUT133 23H840 PY 113	1986 0020		4000	987	8,5
		Equivalent to 2x58W T8					
80W	9250	HUT133 25H830 PY 113	1986 0030		3000	1587	10,5
80W	9250	HUT133 25H840 PY 113	1986 0040		4000	1587	10,5
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
		Equivalent to 2x36W T8					
48W	5550	HUT133 23H830 POME 113	1986 0050		3000	987	4,4
48W	5550	HUT133 23H840 POME 113	1986 0060		4000	987	4,4
		Equivalent to 2x58W T8					
80W	9250	HUT133 25H830 POME 113	1986 0070		3000	1587	5,8
80W	9250	HUT133 25H840 POME 113	1986 0080		4000	1587	5,8

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	BRV
Cable Ø: 10-15 mm	116/216		
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		Reinforced bolt-fitted fixing straps with HSHC screw* (*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.

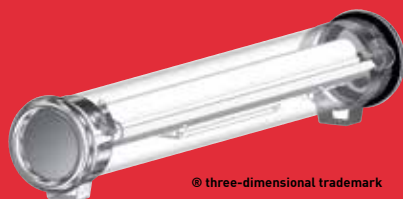


Task lighting

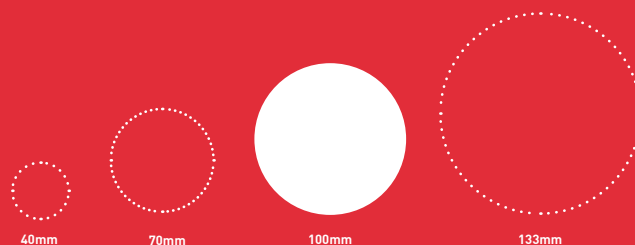
Thanks to their small size, these products can be fitted in confined spaces and easily pointed at the area to be lit. They offer the best compromise between size and the right amount of light.

Selection guide

	Product	Flux	Glass diffuser	Coextruded diffuser
TASK LIGHTING				
Normal environments	Jamin 100	1850lm		x
Harsh environments	Boyle 100	1850lm	x	x
Low temperatures 	Hutton 100	1850lm	x	x



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ZONES 2, 21 AND 22 - EASY MAINTENANCE - TASK LIGHTING -20°C/40°C - LED - 1850 LM

JAMIN 100

EASY MAINTENANCE COMPACT IMPERVIOUS TUBULAR LIGHT FITTING FOR EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition
over the entire temperature range of use
Designed for repeated switching on and off

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

EASY MAINTENANCE

Easy opening and closing with just one screw

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm coextruded polycarbonate/ PMMA diffuser for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

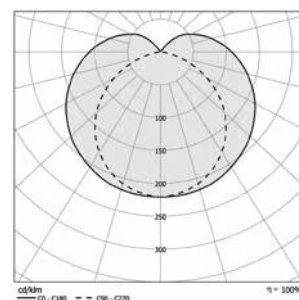
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: remove the end-cap and slide the guided gear tray (patented system)
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	650°C
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	IK10
OPERATING TEMPERATURE	-20°C +40°C



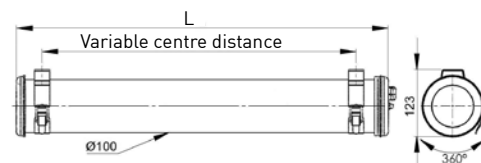
ZONES 2, 21, 22

CE 0080


II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





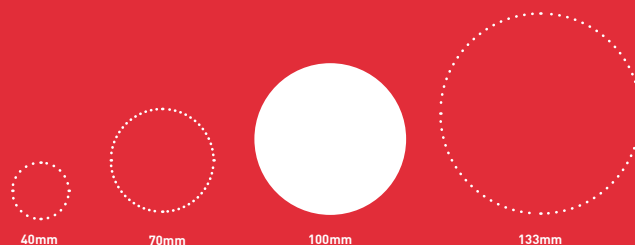
MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
16W	1850	JAM100 12H830 POME 113	1987 0010		3000	708	2,1
16W	1850	JAM100 12H840 POME 113	1987 0020		4000	708	2,1

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		[*Tamper-resistant Torx screw on request]	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



ZONES 2, 21 AND 22 - INCREASED RESISTANCE - TASK LIGHTING -20°C/40°C - LED – 1850 LM

BOYLE 100

COMPACT IMPERVIOUS TUBULAR LUMINAIRE FOR DEMANDING EXPLOSIVE ENVIRONMENTS

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition
over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in EPDM
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

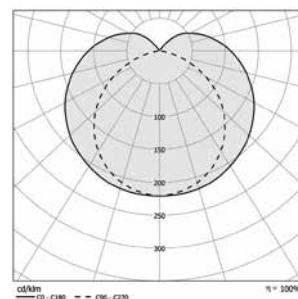
GEAR TRAY WITH LED

- Gear tray in white powder coated steel
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (145 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² terminal block
- Attachment with 2 bolt-fitted stainless steel straps with variable centre distance and allowing 360° orientation (available with closure by HSHC screw)
- Maintenance: release the 2 closing screws, remove the end cap and extract the gear
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-20°C +40°C



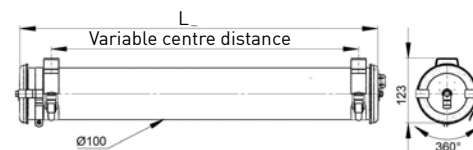
ZONES 2, 21, 22

CE 0080



II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





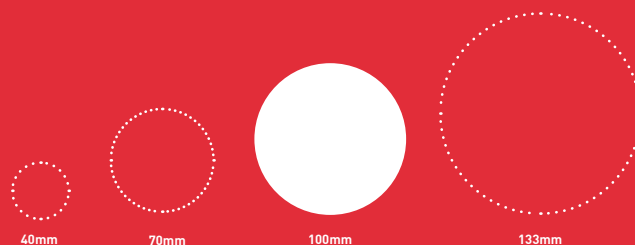
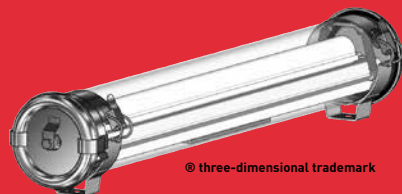
MAIN REFERENCES

					COLOUR		
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	L (mm)	WEIGHT (kg)
VERSIONS WITH BOROSILICATE GLASS HOUSING							
16W	1850	BOY100 12H830 PY 113	1983 0010		3000	697	3,0
16W	1850	BOY100 12H840 PY 113	1983 0020		4000	697	3,0
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING							
16W	1850	BOY100 12H830 POME 113	1983 0030		3000	697	2,2
16W	1850	BOY100 12H840 POME 113	1983 0040		4000	697	2,2

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		
GEAR UNITS			
5-point terminal block for phase balancing C5P	C5P		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.



ZONES 2, 21 AND 22 - INCREASED RESISTANCE - TASK LIGHTING -40°C/40°C - LED - 1850 LM

HUTTON 100

COMPACT IMPERVIOUS TUBULAR LUMINAIRE FOR DEMANDING EXPLOSIVE ENVIRONMENTS WIDE OPERATING TEMPERATURE RANGE

LED TECHNOLOGY

Low in maintenance
Instantaneous full light output on ignition over the entire temperature range of use
Designed for repeated switching on and off

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 aggression

DURABLE

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

DESCRIPTION

HOUSING

- Ø100 mm diffuser in borosilicate glass for corrosive environments
- Also available in coextruded polycarbonate/PMMA for chemically aggressive environments and outdoor lighting
- End caps 1/2 ring press-formed in 304L stainless steel (316L also available)
- Gaskets moulded in silicone
- Cable entry with cable gland
- Possibility for a model with 2 cable entries for looping-in (2 cable glands with stopper plug or 1 cable gland and 1 blind plug at the same cap)

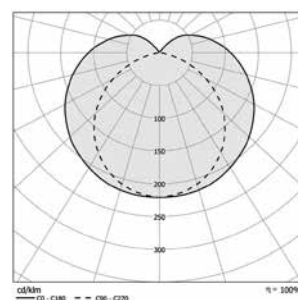
GEAR TRAY WITH LED

- White powder coated gear tray
- Light mixing chamber
- Aluminium heat sink
- Optical diffuser
- High-efficiency LED moduls (140 lm/W)
- Service life: 50,000 hours L80/B50
- Colour temperature: 3000 K or 4000 K
- CRI > 80
- Integrated LED-Driver 220-240V 50/60Hz with constant current output, specifically designed for operation over a wide temperature range

INSTALLATION - MAINTENANCE

- Off-load opening in an explosive environment
- Connection to a 3x2,5mm² 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
- Electronic components (LED and driver) have a very long lifetime (50,000 hours) and can be easily replaced to extend the life of the luminaire and contribute to the sustainability of the investment and to environmental protection.

PHOTOMETRY



PROTECTION AGAINST EXPLOSION

- Protection : Protection « n »
- Compliant with the ATEX 94/9/EC directive and standards IEC 60079-0, IEC 60079-15, IEC 60079-31

ELECTRICAL CLASS	CLASS 1
FIRE RESISTANCE	
Coex. polycarbonate/PMMA	650°C
Borosilicate glass	non-flammable
PROTECTION	IP68/IP69K
SHOCK RESISTANCE	
Coex. polycarbonate/PMMA	IK10
Borosilicate glass	IK07
OPERATING TEMPERATURE	-40°C +40°C



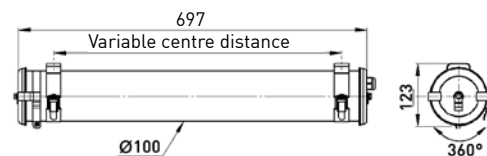
ZONES 2, 21, 22

CE 0080



II 3G Ex nA IIC T4 Gc

II 2D Ex tb IIIC T80°C Db IP66/IP68





MAIN REFERENCES

					COLOUR	
POWER	FLUX (lm)	DESIGNATION	CODE	OPTICS	TEMPERATURE (K)	WEIGHT (kg)
VERSIONS WITH BOROSILICATE GLASS HOUSING						
18W	1850	HUT100 12H830 PY 113	1985 0010		3000	3,2
18W	1850	HUT100 12H840 PY 113	1985 0020		4000	3,2
VERSIONS WITH COEXTRUDED POLYCARBONATE / PMMA HOUSING						
18W	1850	HUT100 12H830 POME 113	1985 0030		3000	2,4
18W	1850	HUT100 12H840 POME 113	1985 0040		4000	2,4

OPTIONS

DESCRIPTION	OPTION CODE	DESCRIPTION	OPTION CODE
CABLE ENTRIES		FINISHINGS	
1 or 2 cable glands in black polyamide		End caps and fixing straps in 316L stainless steel	MR
Cable Ø: 8-13 mm	113/213	FIXINGS	
Cable Ø: 10-15 mm	116/216	Reinforced bolt-fitted fixing straps with HSHC screw*	BRV
1 cable gland in black polyamide and 1 blind plug (Hole Ø : 20 mm)		(*Tamper-resistant Torx screw on request)	
Cable Ø: 8-13 mm	113-1B	ACCESSOIRES	
Cable Ø: 10-15 mm	116-1B	Protective covers	
1 or 2 cable glands in nickel-coated brass		Fixing for columns	
Cable Ø : 5-14 mm	113LN/213LN		

Option codes to be added or to replace the designation codes of main references, subject to the compatibility of options.





Sammode

24 rue des Amandiers
F-75020 Paris
T +33 (0)1 43 14 84 90
F +33 (0)1 43 14 31 46
enquiry@sammode.com
www.sammode.com