Product Data Sheet

GWS4220FH840

SMART [4]

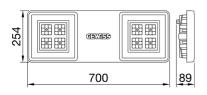


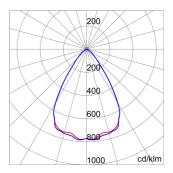
Smart [4] ATEX is the series of LED indoor lighting appliances ideal for use in areas where flammable gases, vapours and dust are present. Two different sizes available: 1M, 2M. The body is made of "Halogen-free" nylon loaded with grey glass fibre (RAL7035) with venting and anti-condensation device, aluminium alloy heat dissipation device EN AB 44300. It is equipped with a dual optical system that includes a metallic reflector with ARRAY optics and a metallic reflector with UV stabilized PMMA lenses, with high efficiency, which allow a wide variety of 60°, 90° and asymmetric light distributions. The electrical connection is via a 3x1.5 mm ² H07RN-F cable with anti-condensation device exiting the product via a PG13.5 ATEX certified metal cable gland. The industrial reflector is certified ATEX II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc. Suspension, wall and projection appliances can be installed. It is available with three types of Colour Temperature (4000K / 5700K), Color Rendering Index CRI>80 and ON/OFF power supply.

Datamatrix	GENERAL INFORMATION	-	OPTIC AND ILLUM	INATING FEATURES	-
Application Internal Lumen output (Im) 19800 196	Context		Optic		60°
Datamatrix	Luminaire		Unified Glare Rating		UGR ≤ 22
Colour Grey RAL 7035 Colour temperature 4000 K	Application	Internal	Lumen output (Im)		19800
Type of light source LED Colour Rendering Index CRI>80 System power 127 W Standard Deviation Colour Matching SDCM = 3 LED Liffetine L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h Photobiological Risk Class RG0 Weight (kg) 7 Standard Deviation Colour Matching SDCM = 3 Weight (kg) 5 Standard Deviation Colour Matching RG0 Warranty 5 years Standard Deviation Colour Matching RG0 Warranty 5 years Standard Deviation Colour Matching RG0 Stocking temperature 40 +70 °C Standard Deviation Colour Matching Stocking temperature Morphisms 60598-2-1 MATERIALS 5 years ELETRICAL AND LIGHTING FEATURES - Shield type 7 PA6 "Halogen Free" loaded fibreglass Driver Rated frequency (Hz) 5060 Hz Shield type 7 Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System Overvoltage protection Standard Deviating residency Wish 6 wckerter and partity in the protection	Unique digital code (Datamatrix)	Datamatrix			156
System power 127 W Standard Deviation Colour Matching SDCM = 3 LED Lifetime L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h Photobiological Risk Class RG0 Weight (kg) 2 Standard EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; EN 60598-2-1 RG0 Warranty 5 years Stocking temperature 40 +70° °C Supply voltage 220 -240 V Operating temperature +5°C + +40° °C Supply voltage 220 -240 V MATERIALS - Driver Included Body PA6 "Halogen Free" loaded fibreglass Tempered glass Thickness Arm Or voltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Tempered glass Thickness Arm Control System On vorvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Missing silicone Light System Celling - Wallmounting - Suspension External screw Stainless steel Till Wirring an installation Ceiling - Wallmounting - Suspension Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc III C Fixing Light souce replaceability	Colour	Grey RAL 7035	Colour temperature		4000 K
System power 127 W Standard Deviation Colour Matching SDCM = 3 LED Lifetime L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h Photobiological Risk Class RG0 Weight (kg) 2 Standard EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; EN 60598-2-1 RG0 Warranty 5 years Stocking temperature 40 +70° °C Supply voltage 220 -240 V Operating temperature +5°C + +40° °C Supply voltage 220 -240 V MATERIALS - Driver Included Body PA6 "Halogen Free" loaded fibreglass Tempered glass Thickness Arm Or voltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Tempered glass Thickness Arm Control System On vorvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Missing silicone Light System Celling - Wallmounting - Suspension External screw Stainless steel Till Wirring an installation Ceiling - Wallmounting - Suspension Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc III C Fixing Light souce replaceability	Type of light source	LED	Colour Rendering Index		CRI>80
	System power	127 W	Standard Deviation Colour Matching		SDCM = 3
Stocking temperature	LED Lifetime		Photobiological Risk	Class	RG0
Stocking temperature	Weight (kg)	7	Standard	EN 60079-0 ; EN	
Operating temperature	Warranty	5 years	ELETRICAL AND LIGHTING FEATURES -		
Operating temperature #5°C + +40 °C Rated frequency (Hz) 50/60 Hz MATERIALS Driver Included Body PA6 "Halogen Free" loaded fibreglass Shield type Driver failure rate F10=100.000h Tq25°C/50.000h Tq40°C Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System ON / OFF Gasket anti-aging silicone Mounting and installation Ceiling - Wallmounting - Suspension External screw Stainless steed Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS Fixing Connector) Classification ATEX: II 3 G Ex nR IIIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc Light souce replaceability By professional Device with reduced surface temperature Yes Control gear replaceability By professional DIN 18032-3 certification Tester of the wind 0,184 m² DIN 18032-3 certification Tester of the wind 0,184 m² IPP degree IP66 Maximum surface exposed to the wind 0,184 m² IPP degree IP66 Tester of the wind	Stocking temperature	-40 +70 °C	Supply voltage		220 - 240 V
Body PA6 "Halogen Free" loaded fibreglass Shield type Tempered glass Thickness 4mm Optic Metallic PC reflector and PMMA lenses Gasket anti-aging silicone External screw Stainless steel Colour Grey RAL 7035 Clour Grey RAL 7035 Clour ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc Device with reduced surface temperature PEA	Operating temperature	+5°C ÷ +40 °C	Rated frequency (Hz)		50/60 Hz
Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System ON / OFF Gasket anti-aging silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspension External screw Stainless steel Tilt Wiring Wiring with anti-breathing cable exiting metallic PG (NO Connector) Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex to IIIC T65°C Dc Light souce replaceability By professional Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² Insulation class I IP66 - Mechanical resistance IK08 -	MATERIALS	-	Driver		Included
Optic Metallic PC reflector and PMMA lenses Control System ON / OFF Gasket anti-aging silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspension External screw Stainless steel Tilt With bracket accessory Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS - Fixing - Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex t II IIC Light souce replaceability By professional Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² Insulation class I - - IP degree IP66 - - Mechanical resistance IK08 - -	Body	PA6 "Halogen Free" loaded fibreglass	Driver failure rate		F10=100.000h Tq25°C/50.000h Tq40°C
Gasket anti-aging silicone Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspension External screw Stainless steel Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS - Fixing - Conscious Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS - Fixing - Connector) Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification PEA - Driver Box Built-in Insulation class I I Insulation Class Insulation Cla	Shield type	Tempered glass Thickness 4mm	Overvoltage protection		DM 6 kV / CM 10 kV
Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspension External screw Stainless steel Colour Grey RAL 7035 Wring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS - Fixing - Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Waximum surface exposed to the wind 1,184 m² Insulation class I I P6 Ggree IP66 - IP66 - IP66 - IP66 - IP60 - IP	Optic	Metallic PC reflector and PMMA lenses	Control System		ON / OFF
External screw Stainless steel Colour Grey RAL 7035 Wring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS Fixing Classification ATEX: II 3 G Ex nR IIC T6 Gc - III 3 D Ex tc IIIC T65°C Dc Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification Driver Box Built-in IPEA Driver Box Built-in IPG Geree IP66 IP66 IP66 IP66 IP66 IP66 IP66 IP	Gasket	anti-aging silicone	INSTALLATION AND MAINTENANCE -		
Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (NO Connector) STANDARDS AND APPROVALS - Fixing - Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex to IIIC Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Device Possional Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² IP degree IP66 - IP66 - IP66 Mechanical resistance - IK08	Locking Hook	-	Mounting and installation Ceiling - Wallmounting - Suspension		
STANDARDS AND APPROVALS - Fixing - Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Driver Box Built-in Insulation class I IP66 - IP66 - Maximum surface exposed to the wind - IP64 - Mechanical resistance IK08 - IK	External screw	Stainless steel	Tilt		
Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in PEA Insulation class I IP66 IP66 IP66 IP66 IP66 IP66 IP66	Colour	Grey RAL 7035	Wiring	Single wiring with	
T65°C Dc Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² Insulation class I - IP degree IP66 - Mechanical resistance IK08 -	STANDARDS AND APPROVALS -		Fixing		<u>-</u>
DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² Insulation class I - IP degree IP66 - Mechanical resistance IK08 -	Classification		Light souce replaceability		By professional
DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,184 m² Insulation class I - IP degree IP66 - Mechanical resistance IK08 -	Device with reduced surface temperature Yes		Controlgear replaceability		By professional
Insulation class I - IP degree IP66 - Mechanical resistance IK08 -	DIN 18032-3 certification -				Built-in
IP degree IP66 - Mechanical resistance IK08 -	IPEA	-	Maximum surface exposed to the wind		0,184 m²
Mechanical resistance IK08 -	Insulation class				<u>-</u>
Mechanical resistance IK08 -	IP degree	IP66			-
01		IK08			-
Glow Wire Test 850 °C -	Glow Wire Test	850 °C			-

DIMENSIONAL

PHOTOMETRIC DISTRIBUTION





TECHNICAL SYMBOLOGY















IK IK08

GWT 850 °C

Product Data Sheet GWS4220FH840 SMART [4]

STANDARDS/APPROVALS

