# Product Data Sheet GWS4220FA857

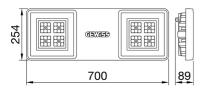
#### SMART [4]



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 <sup>2</sup> 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.

Luminaire     LED Industrial Reflector     Unified Glare Rating     UGR ≤       Application     Internal     Lumen output (Im)     198       Unique digital code (Datamatrix)     Datamatrix     Efficacy     1       Colour     Grey RAL 7035     Colour temperature     5700       Type of light source     LED     Colour Rendering Index     CRI>       System power     127 W     Standard Deviation Colour Matching     SDCM =       LED Lifetime     L90B10(Tq25°C)>150.000h; L90B10     Photobiological Risk Class     Rt       Weight (kg)     6.5     Standard     EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; F     60598-2       Warranty     5 years     ELETRICAL AND LIGHTING FEATURES     605060       Warranty     5 years     ELETRICAL AND LIGHTING FEATURES     50/600       MATERIALS     -     Driver     Driver     10/1000       Operating temperature     +5°C + +40°C     Rated frequency (Hz)     50/600       Shield type     Tempered glass Thickness 4mm     Overvoltage protection     DM 6 kV / CM 10       Optic     Metallized polycarbonate reflector     Control System<	GENERAL INFORMATION	-	OPTIC AND ILLUMINA	ATING FEATURES	-
Application   Internal   Lumen output (Im)   198     Unique digital code (Datamatrix)   Datamatrix   Efficacy (Im/W)   1     Colour   Grey RAL 7035   Colour temperature   5700     Type of light source   LED   Colour Rendering Index   CRI>     System power   127 W   Standard Deviation Colour Matching   SDCM =     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10   Photobiological Risk Class   R     Weight (kg)   6.5   Standard   EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; EN 60598-2; EL ETRICAL AND LIGHTING FEATURES     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES     Stocking temperature   +5°C + +40 °C   Rated frequency (Hz)   50/60     MATERIALS   Driver   Includ   S0/40   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40   S0/40   Overvoltage protection   DM 6 kV / CM 10   ON / O     Gasket   antti-aging silicou   -   Mounting and in	Context		Optic		Array
Unique digital code (Datamatrix)   Datamatrix   Efficacy (Im/W)   1     Colour   Grey RAL 7035   Colour temperature   5700     Type of light source   LED   Colour Rendering Index   CRI>     System power   127 W   Standard Deviation Colour Matching   SDCM =     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10   Photobiological Risk Class   Rt     Weight (kg)   6.5   Standard   EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; E   60588-2     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   60588-2     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   -40 +70 °C   Rted frequency (Hz)   50/60     MATERIALS   -   Driver   Includ   50/60     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   Single wiring with anti-breathing cable exiting metallic PG (for Contr	Luminaire	LED Industrial Reflector	Unified Glare Rating	UG	GR ≤ 25
Colour   Grey RAL 7035   Colour temperature   5700     Type of light source   LED   Colour temperature   5700     System power   127 W   Standard Deviation Colour Matching   SDCM =     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140000h   Photobiological Risk Class   Rd     Weight (kg)   6.5   Standard Deviation Colour Matching   SDCM =     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   60598-2     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   +5°C + +40 °C   Rated frequency (Hz)   50/600     MATERIALS   -   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40     Shield type   Tempered glass Thickness 4nm   Overvoltage protection   DM 6 KV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   INSTALLATION AND MAINTENANCE     Locking Hook   -   Grey RAL 7035   Wiring   Single wiring with anti-breathing cable exiting metallic PG	Application	Internal	Lumen output (Im)		19800
Type of light sourceLEDColour Rendering IndexCRI>System power127 WStandard Deviation Colour MatchingSDCM =LED LifetimeL90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000hPhotobiological Risk ClassRtWeight (kg)6.5Standard Deviation Colour MatchingSDCM =Warranty5 yearsELETRICAL AND LIGHTING FEATURES60598-2Stocking temperature-40 +70 °CSupply voltage220 - 240 60598-2Operating temperature+5°C + +40 °CRated frequency (Hz)50000 Tq25°C/50.000h Tq40BodyPA6 "Halogen Free" loaded fibreglassDriverF10=100.000h Tq25°C/50.000h Tq40Shield typeTempered glass Thickness 4mmOvervoltage protectionDM 6 kV / CN 10OpticMetallized polycarbonate reflectorControl SystemON / OGasketanti-aging siliconeTiltWith bracket accessLocking Hook-TiltWith bracket accessColourGrey RAL 7035ViringSingle wiring with anti-breathing cable exiting metallic PG (from the control system contro	Unique digital code (Datamatrix)	Datamatrix			156
System power   127 W   Standard Deviation Colour Matching   SDCM =     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h   Photobiological Risk Class   Rd     Weight (kg)   6.5   Standard   EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; EN 60598-2; ELETRICAL AND LIGHTING FEATURES     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   +5°C + +40 °C   Rated frequency (Hz)   50/60     MATERIALS   Driver   Includ   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   Mounting and installation   Ceiling - Wallmounting - Suspensi     Locking Hook   -   Grey RAL 7035   Wiring   Single wiring with anti-breathing cable exiting metallic PG (r     StaNDARDS AND APPROVALS   -   Fixing   -   Fixing	Colour	Grey RAL 7035	Colour temperature		5700 K
LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h   Photobiological Risk Class   Rd     Weight (kg)   6.5   Standard   EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; F   60598-2     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   60079-0; EN 60079-15; EN 60079-31; EN 60598-2     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   +5°C ÷ +40 °C   Rated frequency (Hz)   50/60     MATERIALS   -   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   ON KV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON V     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesses     Colour   Grey RAL 7035   Wiring   Single wiring with anti-breathing cable exiting metallic PG (f     StaNDARDS AND APPROVALS   -   Fixing   Connect	Type of light source	LED	Colour Rendering Index	ex	CRI>80
Weight (kg) 6.5 Standard EN 60079-0; EN 60079-15; EN 60079-31; EN 60598-1; f   Warranty 5 years ELETRICAL AND LIGHTING FEATURES   Stocking temperature -40 +70 °C Supply voltage   Operating temperature +5°C ÷ +40 °C Rated frequency (Hz)   Optiver Includ   Body PA6 "Halogen Free" loaded fibreglass Driver allure rate   Shield type Tempered glass Thickness 4mm Overvoltage protection   Optic Metallized polycarbonate reflector Control System   Locking Hook - Mounting and installation   External screw Stainless steel Tilt   Stainless steel Tilt With bracket accesses   Colour Grey RAL 7035 Single wiring with anti-breathing cable exiting metallic PG (f   StanDARDS AND APPROVALS - Fixing	System power	127 W	Standard Deviation Col	blour Matching SD	DCM = 3
Warranty   5 years   ELETRICAL AND LIGHTING FEATURES     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   +5°C + 40 °C   Rated frequency (Hz)   50/60     MATERIALS   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver r   Includ     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   Supply with bracket accesses     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesses     Colour   Grey RAL 7035   Viring   Single wiring with anti-breathing cable exiting metallic PG (M     STANDARDS AND APPROVALS   -   Fixing   Connect	LED Lifetime		Photobiological Risk Cl	lass	RG0
Stocking temperature   -40 +70 °C   Supply voltage   220 - 240     Operating temperature   +5°C ÷ +40 °C   Rated frequency (Hz)   50/60     MATERIALS   -   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   Ning and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesse   Connect     Colour   Grey RAL 7035   Fixing   Single wiring with anti-breathing cable exiting metallic PG (f	Weight (kg)	6.5	Standard		
Operating temperature   +5° C + +40 °C   Rated frequency (Hz)   50/60     MATERIALS   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver ratilure rate   F10=100.000h Tq25°C/50.000h Tq40     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   Mounting and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesses     Colour   Grey RAL 7035   Single wiring with anti-breathing cable exiting metallic PG (ronnect     STANDARDS AND APPROVALS   -   Fixing	Warranty	5 years	ELETRICAL AND LIGI	HTING FEATURES	-
MATERIALS   -   Driver   Includ     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.000h Tq25°C/50.000h Tq40     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesses     Colour   Grey RAL 7035   Wiring   Single wiring with anti-breathing cable exiting metallic PG (Normed Connect)     STANDARDS AND APPROVALS   -   Fixing	Stocking temperature	-40 +70 °C	Supply voltage	220	- 240 V
Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=100.00h Tq25°C/50.00h Tq40     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6 kV / CM 10     Optic   Metallized polycarbonate reflector   Control System   ON / O     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   ON / O     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspensi     External screw   Stainless steel   Tilt   With bracket accesse     Colour   Grey RAL 7035   Wiring   Single wiring with anti-breathing cable exiting metallic PG (Normality of the conservence)     STANDARDS AND APPROVALS   -   Fixing	Operating temperature	+5°C ÷ +40 °C	Rated frequency (Hz)	5	60/60 Hz
Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10   Optic Metallized polycarbonate reflector Control System ON / O   Gasket anti-aging silicone INSTALLATION AND MAINTENANCE   Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspensi   External screw Stainless steel Tilt With bracket accesse   Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (Normality of the connect screed)   STANDARDS AND APPROVALS - Fixing	MATERIALS	-	Driver	li li	ncluded
Optic Metallized polycarbonate reflector Gasket Control System ON / O   Gasket anti-aging silicone INSTALLATION AND MAINTENANCE INSTALLATION AND MAINTENANCE   Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspensis   External screw Stainless steel Tilt With bracket accesses   Colour Grey RAL 7035 Single wiring with anti-breathing cable exiting metallic PG (Normality of the stress of the str	Body	PA6 "Halogen Free" loaded fibreglass	Driver failure rate	F10=100.000h Tq25°C/50.000h	Tq40°C
Gasket anti-aging silicone INSTALLATION AND MAINTENANCE   Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspensi   External screw Stainless steel Tilt With bracket access   Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (to connect   STANDARDS AND APPROVALS - Fixing	Shield type	Tempered glass Thickness 4mm	Overvoltage protection	DM 6 kV / CM	vl 10 kV
Locking Hook - Mounting and installation Ceiling - Wallmounting - Suspension   External screw Stainless steel Tilt With bracket access   Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (Note: Connect to the sector)   STANDARDS AND APPROVALS - Fixing	Optic	Metallized polycarbonate reflector			N / OFF
External screw Stainless steel Tilt With bracket access   Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (to connect   STANDARDS AND APPROVALS - Fixing	Gasket	anti-aging silicone	INSTALLATION AND	MAINTENANCE	-
Colour Grey RAL 7035 Wiring Single wiring with anti-breathing cable exiting metallic PG (Note: Connect	Locking Hook	-			
STANDARDS AND APPROVALS - Fixing	External screw	Stainless steel			
	Colour	Grey RAL 7035	Wiring		
Classification ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex to IIIC Light source replaceability By profession			Fixing		-
T65°C Dc	Classification	ATEX: II 3 G Ex nR IIC T6 Gc - II 3 D Ex tc IIIC T65°C Dc	Light souce replaceabil	ility By profe	essional
Device with reduced surface temperature Yes Controlgear replaceability By profession	Device with reduced surface temperature Yes		Controlgear replaceabi	ility By profe	essional
DIN 18032-3 certification - Driver Box Built	DIN 18032-3 certification -		Driver Box		Built-in
IPEA - Maximum surface exposed to the wind 0,184	IPEA		Maximum surface expo	osed to the wind 0	,184 m²
Insulation class	Insulation class				-
IP degree IP66	IP degree	IP66			-
Mechanical resistance IK08	Mechanical resistance	IK08			-
Glow Wire Test 850 °C	Glow Wire Test	850 °C			-

#### DIMENSIONAL



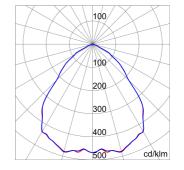
## **TECHNICAL SYMBOLOGY**







Data, measures, designs and pictures are for information purpose only, last update 20/04/2023. They can be changed at any moment, therefore it is always ecommended to read the last updated version published on the website www.gewiss.com.Lumen output and system power are subject to a tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C. Terms of warranty at https://www.gewiss.com/it/en/company/landingpage/led-warranty. - 1 of 2



PHOTOMETRIC DISTRIBUTION

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SMART [4]

### STANDARDS/APPROVALS

