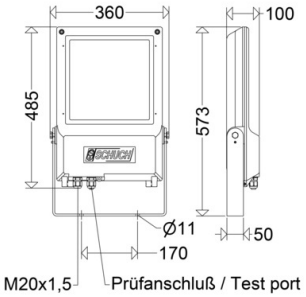
Explosion-protected LED floodlight

ExFOCO L
nD8700 6403T
[Item no. : 87000 0013]

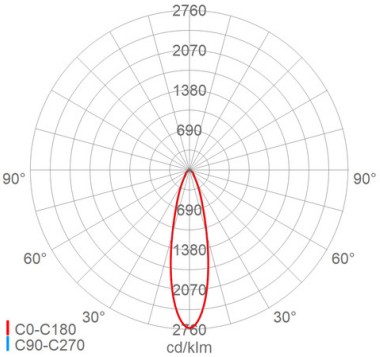
General product description

Explosion-protected LED floodlight ExFOCO L of the GreenLine series with outstanding sustainable product design for zone 2/22. Die-cast aluminium housing and glass frame, powder-coated. Glass frame with tempered safety glass pane, hinged, with silicone gasket. LED modules with highly efficient optics, direct beam, Multi-Layer-Technology, with direct connection to the housing for perfect thermal management. ECG with overvoltage, overload, short circuit protection as well as temperature monitoring of the LED modules. Mounting bracket for pole, wall and ceiling mounting, swivel range 180°.



General product benefits

- efficient substitute for conventional floodlights up to HIT 250W
- extremely high service life even at maximum admissible ambient temperature
- perfect thermal management due to direct connection of the LED modules to the housing, large cooling surface, excellent thermal conductivity
- uniform illumination due to Multi-Layer-Technology, i.e. every individual LED illuminates the whole surface, the light distribution curves of the LED are overlapping
- no light emission into the upper half space, ULOR=0
- eco-friendly; versions dimmable to 10% and with color temperature up to 3,000 K comply with Dark Sky requirements
- sustainable, interchangeable components
- future proof by using standardised Zhaga LED modules
- GreenLine luminaire, outstanding sustainable design



Applications

- hazardous areas zone 2 (gas) and zone 22 (dust)
- outdoor and indoor areas, e.g. storage areas, construction sites, transport routes, loading stations, port areas, halls etc.
- light fitting is not suitable for use in areas with permanently high humiditiy and short operation time, e.g. sewage plants and rainwater retention basins

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Technical data

General

EAN/GTIN:	4041254306940

Explosion protection

EX-Zone:	2 , 22
EX-marking gas:	II 3 G Ex nR IIC T4 Gc
EX-marking dust:	II 3 D Ex tc IIIC T100°C Dc
Primary ignition protection method:	nR
Temperature class:	T4
Surface temperature:	T100°C
ATEX:	IBExU 22 ATEX B012X
IECEx:	IECEx IBE 22.0021X

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source and control gear replaceable by qualified person
Connected load:	140 W
Luminaire luminous flux:	21940 lm
Luminous efficacy:	157 lm/W
Colour temperature:	4000 K
Colour rendering (CRI):	≥ 70
Light colour:	740
Admissible ambient temperature T_a:	-30 °C to +40 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection
Energy efficiency class:	C

Lighting technology

Optical system:	Lens optics
Optical system material:	PMMA
Light distribution:	narrow beam
Photobiological safety:	RG2

Service life

Service life LED:	L80>100000 h (@ Ta max), L80>100000 h (@Ta 25°C)

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Cage clamp, 3-polig, 0,75 - 2,5 mm²
Max. no. with circuit breaker B16:	7
CB B10/B13/B20:	5/6/9
CB C10/C13/C16/C20:	7/9/11/14
Cable entries:	M20 (1x), cable gland (1x), Plastic, 8 - 13 mm

Features/Certificates

Protection class:	I
IP rating:	IP66
IK rating:	IK10
Approval marks:	CE

Mounting

Mounting method (accessories possibly needed):	Ceiling with bracket, Wall with bracket
Operating position:	downwards radiation, forwards radiation
Mounting:	2-point
Swivel range:	0 - 180 °

Housing

Housing material:	Die-cast aluminium
Varnished:	Yes
Colour:	DB 702

Cover

Cover type / material:	Pane (Safety glass)
Cover characteristic:	clear
Closure:	screwed (Stainless steel (1.4301))

Sustainability

GreenLine:	Yes
Rezyklat material content ≥ 50%:	50 %
Dismountable at end of life:	Yes
≥ 80% recycelable:	80 %
Construction modular:	Yes
Spareparts availability > 10 years:	Yes
luminaire is upgradeable:	Yes
Guarantee 5 years:	Yes
Packaging made of 100% recyclet paper:	Yes

Dimension/Weight

Length:	573.00 mm
Width / Diameter:	360.00 mm
Height:	100.00 mm
Net weight:	9.70 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
90120 9000	2531	cable gland M20 for Ex-Zone 1/21
90122 9000	2533	cable gland M20 with blanking plug for Ex-Zone 1/21
90270 0006	ROB 60/76 G2	
75739 9001	MAU 1 76/170 M10	
75739 9002	MAU 2 76/170 M10	