



MICRO-STAR ER

Safety luminaire in compliance with EN 60598-1/2-22 and EN 1838.

Small, modern luminaire body made of anodized aluminum with pre-mounted acrylic optics for surface illumination and enclosed acrylic optics for escape route illumination. The luminaire is designed for installation in openly accessible ceilings.

The luminaire can be ordered with or without container. The container made of polycarbonate consists of only one element and is therefore small and compact.

ATTENTION! Product versions without plastic container for built-in into safety class I luminaires has to be electrical grounded according to instruction.

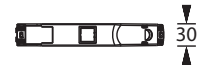
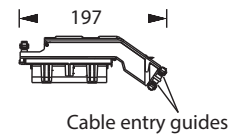
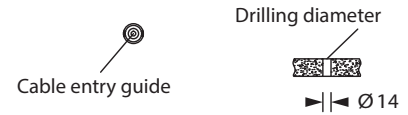
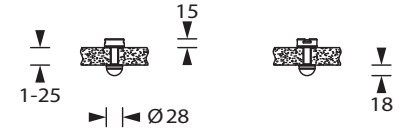


Technical specifications

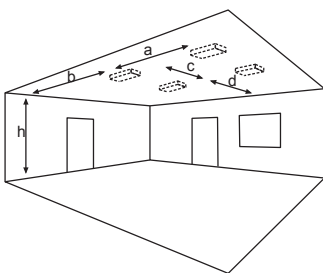
Luminaire type	Luminaires for central battery systems	Self contained luminaires
Illuminant	3 W LED	3 W LED
Connecting terminals	2 x 2.5 mm ² for double assignment	
Colour	white aluminum (silver)	
Material	Aluminum (light cover clear)	
Mounting type	Recessed mounting	
Dimensions (Ø x D)	DE 28 x 18 mm	
Dimensions Container (W x H x D)	197 x 73 x 30 mm	
Ceiling cutout (Ø)	14 mm	
Dimensions Driver (W x H x D)	non-monitored 76 x 22 x 23 mm monitored 110 x 22 x 23 mm	110 x 23 x 22 mm
Distance mounting holes driver	non-monitored 74 mm monitored 104 mm	104 mm
Dimensions Battery (W x H x D)	–	155 x 25 x 25 mm
Distance mounting holes battery	–	148 mm
Protection class	IP54	
Protection class container	IP20	
Safety class	II	
IK Safety class	IK03	
Light current (mains)	280 lm	120 lm
Light current (emergency)		
Rated operating time 1h	–	280 lm
Rated operating time 3h	–	280 lm
Rated operating time 8h	–	120 lm
Luminous flux		
Emergency (DC) / mains		
Rated operating time 1h	–	100% / 45%
Rated operating time 3h	–	100% / 45%
Rated operating time 8h	–	45% / 45%
Power consumption	6 VA	5 VA
Battery current input	15 mA	–
Battery duration	–	1h / 3h / 8h
Battery operation		
Voltage supply	230V 50/60Hz; 220V DC +25/-20%	230V 50/60Hz
NiMH-battery		
Rated operating time 1h	–	4,8V 2,0Ah
Rated operating time 3h	–	4,8V 2,0Ah
Rated operating time 8h	–	4,8V 2,0Ah
Temperature range	-10°C to +40°C	–
Non-maintained mode	–	0°C to +35°C
Maintained mode	–	-5°C to +30°C

optional		
Multi-switch and monitoring module	ELC MSÜ3 SET009 SET010	-
Self monitoring	-	SELF CHECK
Central monitoring	-	SAFELOG Line
Wireless monitoring	-	SAFELOG Wireless

Recessed mounting



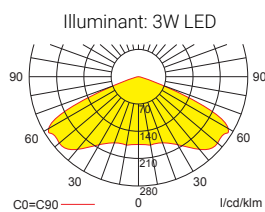
Lighting data and tables of luminaire distances (E = 1,25 lx)



Ceiling mounting

Luminaires for central battery systems wide area optics

Distance table for plane emergency routes / distance data in meters

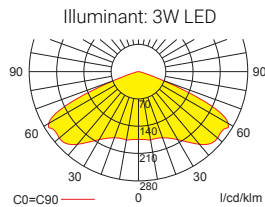


Luminous flux emergency / mains: 280lm

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
b	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60
c	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
d	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60

Self contained luminaires wide area optics

Distance table for plane emergency routes / distance data in meters

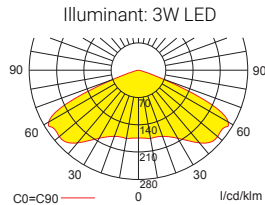


Luminous flux emergency / mains: 280lm/120lm – **Rated operating time: 1h**

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
b	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60
c	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
d	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60

Self contained luminaires wide area optics

Distance table for plane emergency routes / distance data in meters

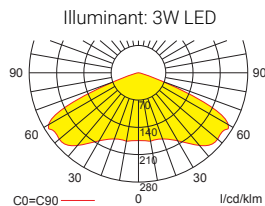


Luminous flux emergency / mains: 280lm/120lm – **Rated operating time: 3h**

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
b	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60
c	10.50	11.90	12.90	13.40	13.40	13.40	13.40	13.20	12.40	9.60	7.40	5.90
d	4.60	4.70	4.70	4.70	4.60	4.00	2.90	1.60	1.60	1.60	1.60	1.60

Self contained luminaires wide area optics

Distance table for plane emergency routes / distance data in meters

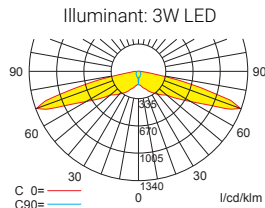


Luminous flux emergency / mains: 120lm/120lm – **Rated operating time: 8h**

h	2.50	3.00	3.50	4.00	4.50	5.00						
a	8.70	8.80	8.80	8.60	7.70	5.20						
b	3.10	3.00	2.20	0.80	0.80	0.80						
c	8.70	8.80	8.80	8.60	7.70	5.20						
d	3.10	3.00	2.20	0.80	0.80	0.80						

Luminaires for central battery systems escape route optics

Distance table for plane emergency routes / distance data in meters

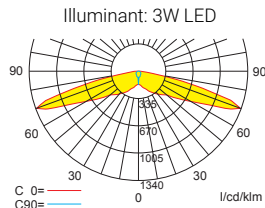


Luminous flux emergency / mains: 280lm

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	18.80	21.00	23.00	24.60	25.90	26.00	25.70	25.10	21.00	18.00	15.50	11.00
b	8.20	8.90	9.50	9.20	8.00	7.00	5.80	5.90	5.00	4.00	3.50	3.00
c	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-

Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

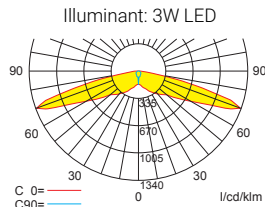


Luminous flux emergency / mains: 280lm/120lm – **Rated operating time: 1h**

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	18.80	21.00	23.00	24.60	25.90	26.00	25.70	25.10	21.00	18.00	15.50	11.00
b	8.20	8.90	9.50	9.20	8.00	7.00	5.80	5.90	5.00	4.00	3.50	3.00
c	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-

Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

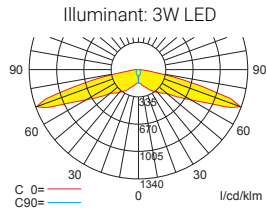


Luminous flux emergency / mains: 280lm/120lm – **Rated operating time: 3h**

h	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
a	18.80	21.00	23.00	24.60	25.90	26.00	25.70	25.10	21.00	18.00	15.50	11.00
b	8.20	8.90	9.50	9.20	8.00	7.00	5.80	5.90	5.00	4.00	3.50	3.00
c	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-

Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters



Luminous flux emergency / mains: 120lm/120lm – **Rated operating time: 8h**

h	2.50	3.00	3.50	4.00	4.50	5.00
a	15.80	17.10	16.80	15.70	10.00	9.50
b	6.20	5.10	3.90	2.50	2.00	1.50
c	-	-	-	-	-	-
d	-	-	-	-	-	-