

3W  
LED

IP20

IP54



# MICRO-STAR ER

Very small and well-designed safety luminaire made from anodized aluminum with preassembled optic for wide area illumination and also enclosed optic for escape route illumination. The luminaire is designed for mounting in an open, accessible ceiling.

To reduce maintenance costs, the battery of the self-contained version can be replaced without tools via a click system.

## Technical specifications

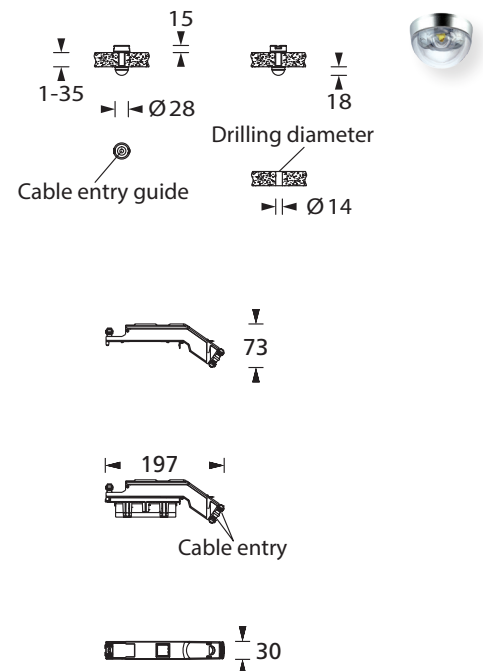
Connecting terminals	2 x 2,5 mm <sup>2</sup> for double assignment
Casing/colour	Aluminum anodized/Light cover clear
Type of assembly	Recessed ceiling mounting
Dimensions (ø x H)	28 x 18 mm
Container (W x H x D)	197 x 73 x 30 mm
Protection class	
Container	IP20
Luminaire body	IP54
Safety class	II



	<span style="color: red;">■</span> Luminaires for central battery systems	<span style="color: blue;">■</span> Self contained luminaires
Illuminant	3W LED	3W LED
Light current	240lm	50lm (net)
Rated operating time 1h/3h	-	240lm (emergency)
Rated operating time 8h	-	110lm (emergency)
Luminous flux		
Emergency (DC)/mains 1h/3h	-	100% / 20%
Emergency (DC)/mains 8h	-	50% / 20%
Power consumption	6VA	5VA
Battery current input	15mA	-
Voltage supply	230V 50/60Hz / 220V DC +25/-20%	230V 50/60Hz
NiMh-Akku 1h/3h/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 SAFELOG Wireless



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



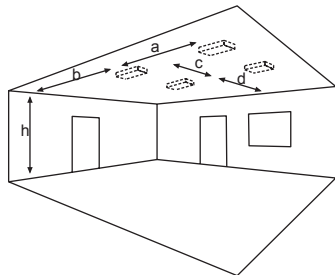
## Dimensions driver and battery

Driver	Dimensions (WxHxD)	Distance mounting holes
Central battery non-monitored	76 x 23 x 22 mm	74 mm
Central battery monitored & single battery	110 x 23 x 22 mm	104 mm
Battery	Dimensions (WxHxD)*	Distance mounting holes
Battery pack 4,8 Volt - 2,0Ah	155 x 25 x 25 mm	148 mm

\*incl. caps

Technische Änderungen vorbehalten/Technical changes reserved

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



Ceiling mounting

## ■ Luminaires for central battery systems Wide area optic Distance table for plane emergency routes / distance data in meters

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 240lm / 240lm

	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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	9,80	11,20	12,10	12,30	12,30	12,30	12,20	11,00	8,40	6,80	-	-	-	-	-	-	-	-	-	-
b	4,30	4,20	4,30	4,20	3,90	2,80	1,50	1,00	1,00	0,60	-	-	-	-	-	-	-	-	-	-
c	9,80	11,20	12,10	12,30	12,30	12,30	12,20	11,00	8,40	6,80	-	-	-	-	-	-	-	-	-	-
d	4,30	4,20	4,30	4,20	3,90	2,80	1,50	1,00	1,00	0,60	-	-	-	-	-	-	-	-	-	-

## ■ Self contained luminaires Wide area optic Distance table for plane emergency routes / distance data in meters

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 240lm/50lm – Rated operating time: 1h/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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	9,80	11,20	12,10	12,30	12,30	12,30	12,20	11,00	8,40	6,80	-	-	-	-	-	-	-	-	-	-
b	4,30	4,20	4,30	4,20	3,90	2,80	1,50	1,00	1,00	0,60	-	-	-	-	-	-	-	-	-	-
c	9,80	11,20	12,10	12,30	12,30	12,30	12,20	11,00	8,40	6,80	-	-	-	-	-	-	-	-	-	-
d	4,30	4,20	4,30	4,20	3,90	2,80	1,50	1,00	1,00	0,60	-	-	-	-	-	-	-	-	-	-

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 110lm/50lm – Rated operating time: 8h

	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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	8,30	8,30	8,30	7,80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b	2,90	2,70	1,60	1,00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c	8,30	8,30	8,30	7,80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	2,90	2,70	1,60	1,00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## ■ Luminaires for central battery systems Escape route optic Distance table for plane emergency routes / distance data in meters

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 240lm / 240lm

	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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	18,00	19,90	21,90	23,40	24,70	24,90	21,70	19,00	15,00	11,00	-	-	-	-	-	-	-	-	-	-
b	7,60	8,20	8,60	7,80	6,60	5,50	4,70	4,50	4,50	4,00	-	-	-	-	-	-	-	-	-	-
c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## ■ Self contained luminaires Escape route optic Distance table for plane emergency routes / distance data in meters

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 240lm/50lm – Rated operating time: 1h/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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	18,00	19,90	21,90	23,40	24,70	24,90	21,70	19,00	15,00	11,00	-	-	-	-	-	-	-	-	-	-
b	7,60	8,20	8,60	7,80	6,60	5,50	4,70	4,50	4,50	4,00	-	-	-	-	-	-	-	-	-	-
c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Illuminant: 3W LED  
Lamp luminous flux emergency (DC)/mains: 110lm/50lm – Rated operating time: 8h

	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	8,50	9,00	9,50	10,00	10,50	11,00	12,00
a	15,30	16,20	16,10	12,00	9,00	6,00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b	5,60	4,60	3,60	3,00	3,00	2,90	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-