

# SAFE D

Weather-proof housing made of aluminum die-casting with a pane of safety glass. Model for ceiling mounting with four high-performance LEDs and cast acrylic optics for wide area illumination or escape route illumination or hall downlights for high ceilings.

Cable inlet into the luminaire possible from the back and from below. Product includes an IP65 membrane pressure compensation valve.

Optionally, the luminaire can be delivered as a central battery version for a temperature range down to -35°C (unmonitored).

The self contained version is also available as a set with an external supply unit for indoor installation and lighting unit for outdoor mounting (suitable for a temperature range to -35°C).

Alternatively, the luminaire is available with a heating case incl. battery (4,8V 4,2Ah) to extend the temperature range in the luminaire to -20°C.



## Technical specifications

Connecting terminals	3 x 2,5 mm <sup>2</sup> for double assignment
Casing/colour	Aluminum die-cast / white
Type of assembly	Ceiling mounting
Dimensions (WxHxD)	190 x 56 x 190 mm
Protection class	IP65
Safety class	I

	■ Luminaires for central battery systems	■ Self contained luminaires
Illuminant	4 x 3W LED	4 x 3W LED
Light current	960lm	960lm (net)
Rated operating time 1h/3h		580lm (emergency)
Rated operating time 8h		320lm (emergency)
Luminous flux		
Emergency (DC)/net 1h/3h		60% / 100%
Emergency (DC)/net 8h		30% / 100%
Power consumption	19,2VA	1h: 18,7 VA 3h/8h: 20,3 VA
Battery current input	50mA	
Voltage supply	230V 50/60Hz / 220V DC +25/-20%	230V 50/60Hz
NiMh-Akku 1h		4,8V 2,0Ah
NiMh-Akku 3h/8h		4,8V 4,2Ah
Temperature range <sup>1) 2) 3)</sup>	-20°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 <sup>1)</sup>	ELC, MSÜ3, SET009, SET010	
Self monitoring		SELF CHECK
Central monitoring		SAFELOG Line SAFELOG Wireless

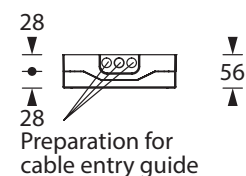
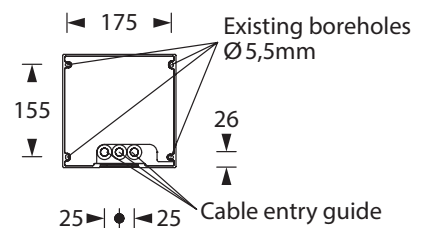
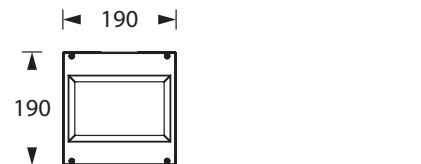
<sup>1)</sup> Lowest permissible temperature -10°C in case of use ELC, MSÜ3, SET009, SET010.

<sup>2)</sup> Optionally available with external supply unit and luminaire housing for temperatures down to -35°C.

<sup>3)</sup> Optional available with heating case, incl. battery (4,8V 4,2Ah), to use in environments with lowest permissible temperature of -20°C within the luminaire.

## Accessories

Chain assembly set
Cable assembly set
Rear mounting bracket

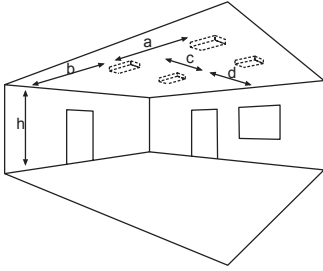


optional: External supply unit



optional: Heating case

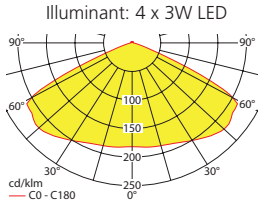
Lighting datas and tables of luminaire distances (E = 1,25 lx)



Ceiling mounting

**Luminaires for central battery systems Wide area optic**

**Distance table for plane emergency routes / distance data in meters**

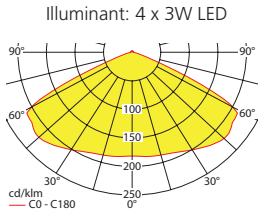


Lamp luminous flux emergency (DC)/mains: 960lm / 960lm

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	11,50
a	12,20	14,00	15,70	17,30	18,70	19,90	21,10	21,80	22,40	22,70	23,00	23,10	23,30	23,40	23,50	23,40	23,30	22,90	22,30
b	5,60	6,40	7,00	7,50	7,90	8,00	8,10	8,20	8,30	8,30	8,20	8,00	7,60	7,10	6,30	5,40	4,40	3,30	1,90
c	12,20	14,00	15,70	17,30	18,70	19,90	21,10	21,80	22,40	22,70	23,00	23,10	23,30	23,40	23,50	23,40	23,30	22,90	22,30
d	5,60	6,40	7,00	7,50	7,90	8,00	8,10	8,20	8,30	8,30	8,20	8,00	7,60	7,10	6,30	5,40	4,40	3,30	1,90

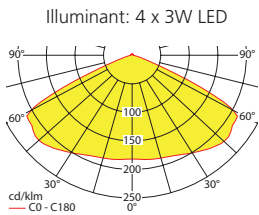
**Self contained luminaires Wide area optic**

**Distance table for plane emergency routes / distance data in meters**



Lamp luminous flux emergency (DC)/mains: 580lm/960lm – **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
a	11,50	13,10	14,50	15,80	16,70	17,40	17,70	17,90	18,10	18,20	18,20	18,10	17,90	17,30
b	5,20	5,80	6,10	6,30	6,40	6,40	6,40	6,30	6,00	5,50	4,70	3,70	2,70	1,20
c	11,50	13,10	14,50	15,80	16,70	17,40	17,70	17,90	18,10	18,20	18,20	18,10	17,90	17,30
d	5,20	5,80	6,10	6,30	6,40	6,40	6,40	6,30	6,00	5,50	4,70	3,70	2,70	1,20

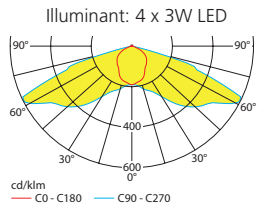


Lamp luminous flux emergency (DC)/mains: 320lm/960lm – **Rated operating time: 8h**

h	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00
a	10,30	11,50	12,20	12,50	12,70	12,80	12,80	12,50
b	4,30	4,40	4,50	4,50	4,30	3,70	2,90	1,90
c	10,30	11,50	12,20	12,50	12,70	12,80	12,80	12,50
d	4,30	4,40	4,50	4,50	4,30	3,70	2,90	1,90

**Luminaires for central battery systems Escape route optic**

**Distance table for plane emergency routes / distance data in meters**

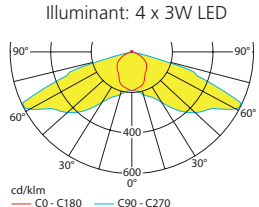


Lamp luminous flux emergency (DC)/mains: 960lm / 960lm

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	11,00	12,00
a	17,80	20,40	22,70	24,70	26,50	28,20	29,80	31,30	32,80	34,20	35,30	36,30	37,10	37,70	37,90	38,00	37,30	35,30
b	8,10	9,10	9,90	10,70	11,50	12,10	12,70	13,10	13,40	13,40	13,30	13,10	12,50	12,00	11,80	11,60	10,90	9,40
c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

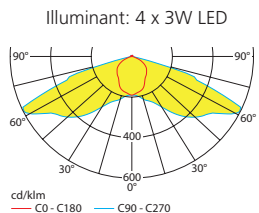
**Self contained luminaires Escape route optic**

**Distance table for plane emergency routes / distance data in meters**



Lamp luminous flux emergency (DC)/mains: 580lm/960lm – **Rated operating time: 1h/3h**

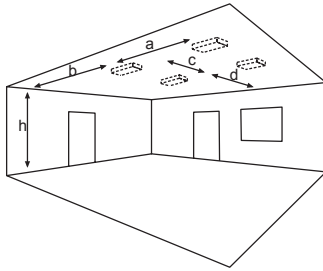
h	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	8,50	9,00	9,50
a	16,60	18,80	20,60	22,30	23,90	25,30	26,70	27,80	28,70	29,30	29,50	29,50	29,10	28,30	27,00
b	7,30	8,10	8,90	9,60	10,00	10,40	10,40	10,30	9,80	9,30	9,10	8,90	8,50	7,80	0,80
c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Lamp luminous flux emergency (DC)/mains: 320lm/960lm – **Rated operating time: 8h**

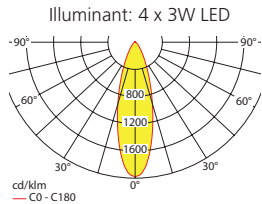
h	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
a	15,00	16,60	18,20	19,60	20,70	21,60	21,90	21,80	21,30	20,20
b	6,50	7,10	7,60	7,80	7,60	7,10	6,80	6,60	6,10	3,10
c	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-

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



Ceiling mounting

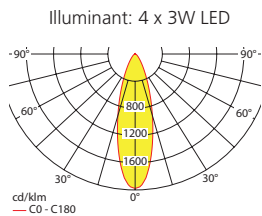
## ■ Luminaires for central battery systems Hall downlights Distance table for plane emergency routes / distance data in meters



Lamp luminous flux emergency (DC)/mains: 960lm / 960lm

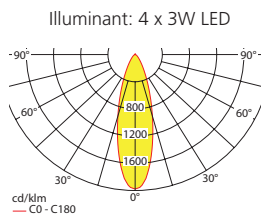
h	7,00	9,00	11,00	13,00	15,00	17,00	19,00	21,00	23,00	25,00	27,00	29,00	31,00	33,00	35,00	37,00	39,00
a	12,90	14,40	15,60	16,70	17,70	18,50	19,20	19,80	20,30	20,60	20,90	21,00	21,10	21,00	20,80	20,50	20,00
b	5,30	5,90	6,30	6,70	7,00	7,20	7,40	7,40	7,40	7,30	7,10	6,90	6,50	6,10	5,40	4,60	3,50
c	12,90	14,40	15,60	16,70	17,70	18,50	19,20	19,80	20,30	20,60	20,90	21,00	21,10	21,00	20,80	20,50	20,00
d	5,30	5,90	6,30	6,70	7,00	7,20	7,40	7,40	7,40	7,30	7,10	6,90	6,50	6,10	5,40	4,60	3,50

## ■ Self contained luminaires Hall downlights Distance table for plane emergency routes / distance data in meters



Lamp luminous flux emergency (DC)/mains: 580lm/960lm – **Rated operating time: 1h/3h**

h	7,00	9,00	11,00	13,00	15,00	17,00	19,00	21,00	23,00	25,00	27,00	29,00	31,00
a	11,20	12,40	13,50	14,30	15,00	15,60	16,00	16,30	16,40	16,30	16,20	15,90	15,40
b	4,60	5,00	5,40	5,60	5,70	5,80	5,70	5,50	5,30	4,90	4,30	3,50	2,00
c	11,20	12,40	13,50	14,30	15,00	15,60	16,00	16,30	16,40	16,30	16,20	15,90	15,40
d	4,60	5,00	5,40	5,60	5,70	5,80	5,70	5,50	5,30	4,90	4,30	3,50	2,00



Lamp luminous flux emergency (DC)/mains: 320lm/960lm – **Rated operating time: 8h**

h	7,00	8,00	9,00	10,00	11,00	12,00	13,00	14,00	15,00	16,00	17,00	18,00	19,00	20,00	21,00	22,00	23,00
a	9,40	9,90	10,40	10,80	11,10	11,40	11,70	11,80	12,00	12,10	12,10	12,20	12,10	12,00	11,90	11,70	11,40
b	3,80	4,00	4,10	4,20	4,30	4,30	4,30	4,20	4,20	4,10	4,00	3,70	3,50	3,20	2,80	2,30	1,50
c	9,40	9,90	10,40	10,80	11,10	11,40	11,70	11,80	12,00	12,10	12,10	12,20	12,10	12,00	11,90	11,70	11,40
d	3,80	4,00	4,10	4,20	4,30	4,30	4,30	4,20	4,20	4,10	4,00	3,70	3,50	3,20	2,80	2,30	1,50