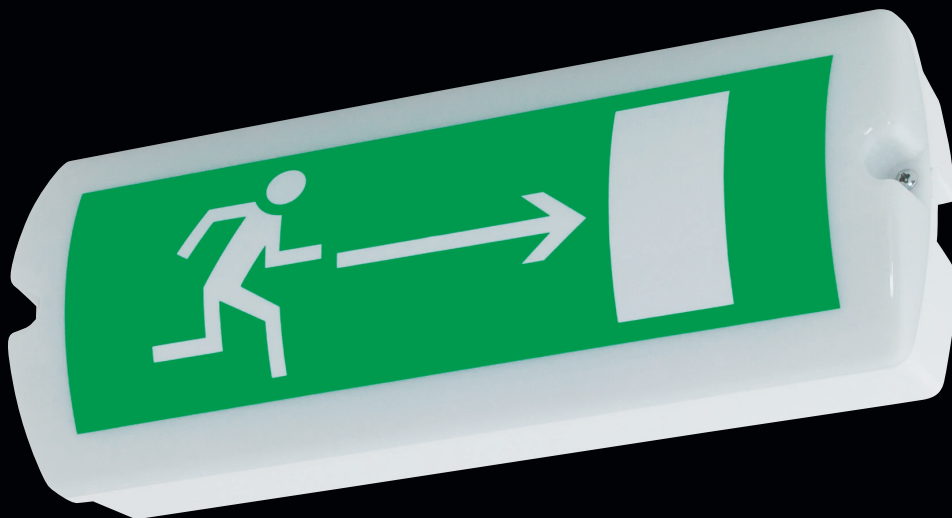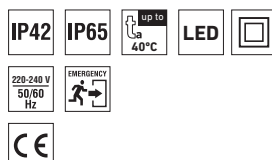# HELIOS LED

... emergency and orientation.

USE

The light fitting is suitable for emergency and orientation illumination of hallways, offices, warehouses and production shop floors.

ADVANTAGES

- Emergency module **1 hr or 3 hrs**
- High-temperature **Ni-Cd HT** battery (M1h and M3h), or LiFePO$_4$ battery for version with self-test (M1hAt and M3hAt)
- LED indicator of correct operation
- Electronic protection against complete battery discharge
- Possible connection for both permanent (SA) and emergency (SE) lighting
- Light fitting protection **IP42 or IP65**
- High thermal resistance ranging **from t$_a$ = 0 °C to t$_a$ = 40 °C** also for basic Ni-Cd battery type
- Insulation: Class 2

| IP42 | IP65 | up to t$_a$ 40°C | LED | ▣ |

| 220-240 V 50/60 Hz | EMERGENCY |

CE

HELIOS LED

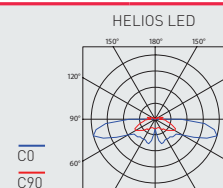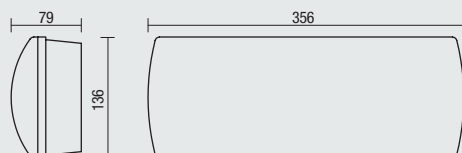## TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: $t_a = 40\,°C$
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- Reflector: white polycarbonate
- MacAdam = 3 SDCM
- Diffuser and body connected: by screws
- Charging:
  M1h and M3h variants max. 24 h,

M1hAt and M3hAt variant max. 12 h
- Electric equipment: driver, emergency module 1h or 3h; M1h and M3h variants including Ni-Cd HT battery (3,6V); M1hAt and M3hAt variants including $LiFePO_4$ (6,4V)
- Pictogram: optional accessory

Code	Type	Autonomy [hrs]	Luminous flux of light fitting [lm]	Power in emergency mode [W]	Light fitting efficiency [lm/W]	Battery type	Charging time [hrs]	Net weight [kg]
	Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting							
43518	HELIOS LED 101 M1h	1	80	1	80	Ni-Cd HT	24	1,1
43511	HELIOS LED 102 M1h	1	150	2	75	Ni-Cd HT	24	1,2
43618	HELIOS LED IP65 101 M1h	1	80	1	80	Ni-Cd HT	24	1,2
43611	HELIOS LED IP65 102 M1h	1	150	2	75	Ni-Cd HT	24	1,2
43538	HELIOS LED 101 M3h	3	80	1	80	Ni-Cd HT	24	1,2
43531	HELIOS LED 102 M3h	3	150	2	75	Ni-Cd HT	24	1,4
43638	HELIOS LED IP65 101 M3h	3	80	1	80	Ni-Cd HT	24	1,2
43631	HELIOS LED IP65 102 M3h	3	150	2	75	Ni-Cd HT	24	1,4
	Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest							
43548	HELIOS LED 101 M1hAt	1	80	1	80	$LiFePO_4$	12	1,1
43541	HELIOS LED 102 M1hAt	1	150	2	75	$LiFePO_4$	12	1,2
43648	HELIOS LED IP65 101 M1hAt	1	80	1	80	$LiFePO_4$	12	1,1
43641	HELIOS LED IP65 102 M1hAt	1	150	2	75	$LiFePO_4$	12	1,1
43568	HELIOS LED 101 M3hAt	3	80	1	80	$LiFePO_4$	12	1,1
43561	HELIOS LED 102 M3hAt	3	150	2	75	$LiFePO_4$	12	1,3
43668	HELIOS LED IP65 101 M3hAt	3	80	1	80	$LiFePO_4$	12	1,1
43661	HELIOS LED IP65 102 M3hAt	3	150	2	75	$LiFePO_4$	12	1,2

Example of type marking: 43638 = HELIOS LED IP65 101 **M3h**

LEGEND

M1–3h – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting
M1–3hAt – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting with autotest
Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

Module signalling without autotest

LED colour		Information
● green		
flashing		battery charging
-		running test/emergency mode

Module signalling with autotest (At)

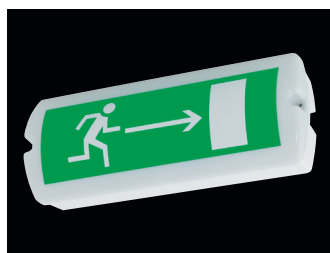| LED colour		Information
● green	● red	
flashing	-	battery charging
-	flashing	defective LED module
-	shining	defective battery
-	-	running test/emergency mode

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws

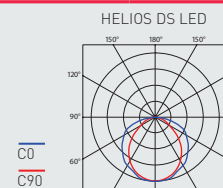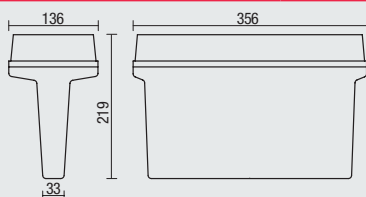## LIGHT FITTING DETAILED VIEW

HELIOS LED

HELIOS DS LED

TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: t_a = 40 °C
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- MacAdam = 3 SDCM
- Reflector: white polycarbonate
- Diffuser and body connected: by screws
- Charging:
  M1h and M3h variants max. 24 h,
  M1hAt and M3hAt variant max. 12 h

- Electric equipment: driver, emergency module 1h or 3h; M1h and M3h variants including Ni-Cd HT battery (3,6V); M1hAt and M3hAt variants including LiFePO$_4$ (6,4V)
- Pictogram: optional accessory

Code	Type	Autonomy [hrs]	Luminous flux of light fitting [lm]	Power in emergency mode [W]	Light fitting efficiency [lm/W]	Battery type	Charging time [hrs]	Net weight [kg]
	Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting							
43718	HELIOS DS LED 101 M1h	1	80	1	80	Ni-Cd HT	24	1,3
43711	HELIOS DS LED 102 M1h	1	150	2	75	Ni-Cd HT	24	1,4
43818	HELIOS DS LED IP65 101 M1h	1	80	1	80	Ni-Cd HT	24	1,4
43811	HELIOS DS LED IP65 102 M1h	1	150	2	75	Ni-Cd HT	24	1,4
43738	HELIOS DS LED 101 M3h	3	80	1	80	Ni-Cd HT	24	1,4
43731	HELIOS DS LED 102 M3h	3	150	2	75	Ni-Cd HT	24	1,6
43838	HELIOS DS LED IP65 101 M3h	3	80	1	80	Ni-Cd HT	24	1,4
43831	HELIOS DS LED IP65 102 M3h	3	150	2	75	Ni-Cd HT	24	1,6
	Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest							
43748	HELIOS DS LED 101 M1hAt	1	80	1	80	LiFePO$_4$	12	1,3
43741	HELIOS DS LED 102 M1hAt	1	150	2	75	LiFePO$_4$	12	1,4
43848	HELIOS DS LED IP65 101 M1hAt	1	80	1	80	LiFePO$_4$	12	1,3
43841	HELIOS DS LED IP65 102 M1hAt	1	150	2	75	LiFePO$_4$	12	1,3
43768	HELIOS DS LED 101 M3hAt	3	80	1	80	LiFePO$_4$	12	1,3
43761	HELIOS DS LED 102 M3hAt	3	150	2	75	LiFePO$_4$	12	1,5
43868	HELIOS DS LED IP65 101 M3hAt	3	80	1	80	LiFePO$_4$	12	1,3
43861	HELIOS DS LED IP65 102 M3hAt	3	150	2	75	LiFePO$_4$	12	1,4

Example of type marking: 43838 = HELIOS DS LED IP65 101 **M3h**

LEGEND

M1–3h – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting
M1–3hAt – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting with autotest
Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

Module signalling without autotest

LED colour	Information
● green	
flashing	battery charging
-	running test/emergency mode

Module signalling with autotest (At)

LED colour		Information
● green	● red	
flashing	-	battery charging
-	flashing	defective LED module
-	shining	defective battery
-	-	running test/emergency mode

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws

LIGHT FITTING DETAILED VIEW

HELIOS DS LED