

Emergency LED light fittings**LED Emergency 166****PRIMA LED NM 168****FUTURA NM 171****TYLIUS LED 174****HELIOS LED 179****PLEXI LED 182**

EMERGENCY LED



PRIMA LED

FUTURA

TYLIUS LED

HELIOS LED

PLEXI LED



PRIMA LED – plastic emergency LED light fitting



PRIMA LED NM
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IP66

PRIMA LED NM
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FUTURA – plastic emergency LED light fitting



FUTURA NM
str. 171



IP66

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TYLIUS LED – all-plastic emergency LED light fitting



TYLIUS LED
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TYLIUS LED B
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TYLIUS LED AW
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TYLIUS LED AC
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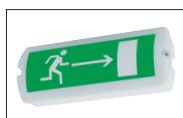
TYLIUS LED
ACCESSORIES
page 184

IP44

HELIOS LED – all-plastic emergency LED light fitting



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HELIOS DS LED
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IP42

IP65

PLEXI LED – emergency LED light fitting for installation into plasterboard lower ceilings



PLEXI LED
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PLEXI LED
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PLEXI LED
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IP20

PRIMA LED NM



... emergency.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with Prima LED and Innova light fittings.

It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

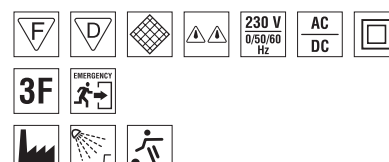
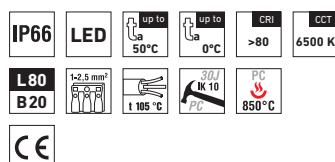
It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 193.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Emergency module **1h or 3h**
- Optional selection of EM kit with battery autotest

- Integrated diode for indication of correct operation
- Optional selection of battery type between **Ni-Cd** or **LiFePO₄**
- Low energy consumption in StandBy mode
- Optional selection of connection between **cable gland** or **connector**
- Insulation class II

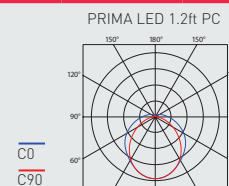
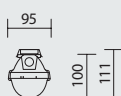
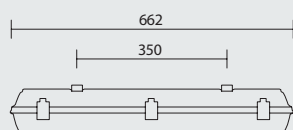


PRIMA LED PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **t_a = 50 °C**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Maximum light fitting efficiency: 133 lm/W
- **CRI > 80: 6500 K**
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body groove
- Light fitting connection: **cable gland PG 13,5 / 16** or **connector**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment:
 - EM kit including Ni-Cd battery without autotest, LED module**
 - EM kit including LiFePO₄ battery with autotest, LED module**
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 7,5 %



Type	Autonomy [hrs]	Luminous flux of light fitting [lm]	Power in emergency mode [W]	Light fitting efficiency [lm/W]	Battery type	Power in standby mode [W]	Charging time [hrs]	Power in charging mode [W]	Net weight [kg]
Non-maintained emergency luminaire without autotest									
PRIMA LED 1.2ft PC NM1h	1	440	4,5	98	Ni-Cd	1,5	24	9	1,2
PRIMA LED 1.2ft PC NM3h	3	440	4,5	98	Ni-Cd	1,5	24	9	1,4
Non-maintained emergency luminaire with autotest									
PRIMA LED 1.2ft PC NM1hAt	1	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,2
PRIMA LED 1.2ft PC NM3hAt	3	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,4

PRIMA LED PC with cable glands		Non-maintained emergency luminaire without autotest - cable glands PG 13,5 / 16 - plastic clips					
Type		NM1h	3F NM1h	DALI 3F NM1h	NM3h	3F NM3h	DALI 3F NM3h
PRIMA LED 1.2ft PC ...		62210	62211	x	62213	62214	x
PRIMA LED PC with cable glands		Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - plastic clips					
Type		NM1hAt	3F NM1hAt	DALI 3F NM1hAt	NM3hAt	3F NM3hAt	DALI 3F NM3hAt
PRIMA LED 1.2ft PC ...		62220	62221	x	62223	62224	x

PRIMA LED PCc with cable glands		Non-maintained emergency luminaire without autotest - cable glands PG 13,5 / 16 - stainless clips (c)					
Type		NM1h	3F NM1h	DALI 3F NM1h	NM3h	3F NM3h	DALI 3F NM3h
PRIMA LED 1.2ft PCc ...		62230	62231	x	62233	62234	x
PRIMA LED PCc with cable glands		Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - stainless clips (c)					
Type		NM1hAt	3F NM1hAt	DALI 3F NM1hAt	NM3hAt	3F NM3hAt	DALI 3F NM3hAt
PRIMA LED 1.2ft PCc ...		62240	62241	x	62243	62244	x

PRIMA LED PC with connectors		Non-maintained emergency luminaire without autotest - interconnecting connectors - plastic clips					
Type		L1 2x5P NM1h	L3 2x5P NM1h	L1 2x7P NM1h	L1 2x5P NM3h	L3 2x5P NM3h	L1 2x7P NM3h
PRIMA LED 1.2ft PC ...		62250	62251	62252	62253	62254	62255
PRIMA LED PC with connectors		Non-maintained emergency luminaire with autotest - interconnecting connectors - plastic clips					
Type		L1 2x5P NM1hAt	L3 2x5P NM1hAt	L1 2x7P NM1hAt	L1 2x5P NM3hAt	L3 2x5P NM3hAt	L1 2x7P NM3hAt
PRIMA LED 1.2ft PC ...		62260	62261	62262	62263	62264	62265

PRIMA LED PCc with connectors		Non-maintained emergency luminaire without autotest - interconnecting connectors - stainless clips (c)					
Type		L1 2x5P NM1h	L3 2x5P NM1h	L1 2x7P NM1h	L1 2x5P NM3h	L3 2x5P NM3h	L1 2x7P NM3h
PRIMA LED 1.2ft PCc ...		62270	62271	62272	62273	62274	62275
PRIMA LED PCc with connectors		Non-maintained emergency luminaire with autotest - interconnecting connectors - stainless clips (c)					
Type		L1 2x5P NM1hAt	L3 2x5P NM1hAt	L1 2x7P NM1hAt	L1 2x5P NM3hAt	L3 2x5P NM3hAt	L1 2x7P NM3hAt
PRIMA LED 1.2ft PCc ...		62280	62281	62282	62283	62284	62285

LEGEND

- NM1h** – non-maintained emergency luminaire, operation time 1 hour
- 3F NM1h** – non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F)
- DALI 3F NM1h** – non-maintained emergency luminaire, operation time 1 hour, 7-wire throughwiring (DALI 3F)
- NM3h** – non-maintained emergency luminaire, operation time 3 hours
- 3F NM3h** – non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F)
- DALI 3F NM3h** – non-maintained emergency luminaire, operation time 3 hours, 7-wire throughwiring (DALI 3F)

- L1 2x5P NM1h** – non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 1 hour, line connection, power supply from L1
- L3 2x5P NM1h** – non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 1 hour, line connection, power supply from L3
- L1 2x7P NM1h** – non-maintained emergency luminaire, 2x7P connectors and 7-wire throughwiring (DALI 3F), operation time 1 hour, line connection, power supply from L1
- L1 2x5P NM3h** – non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 3 hours, line connection, power supply from L1
- L3 2x5P NM3h** – non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 3 hours, line connection, power supply from L3
- L1 2x7P NM3h** – non-maintained emergency luminaire, 2x7P connectors and 7-wire throughwiring (DALI 3F), operation time 3 hours, line connection, power supply from L1

- ...At** – version with battery autotest

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

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks

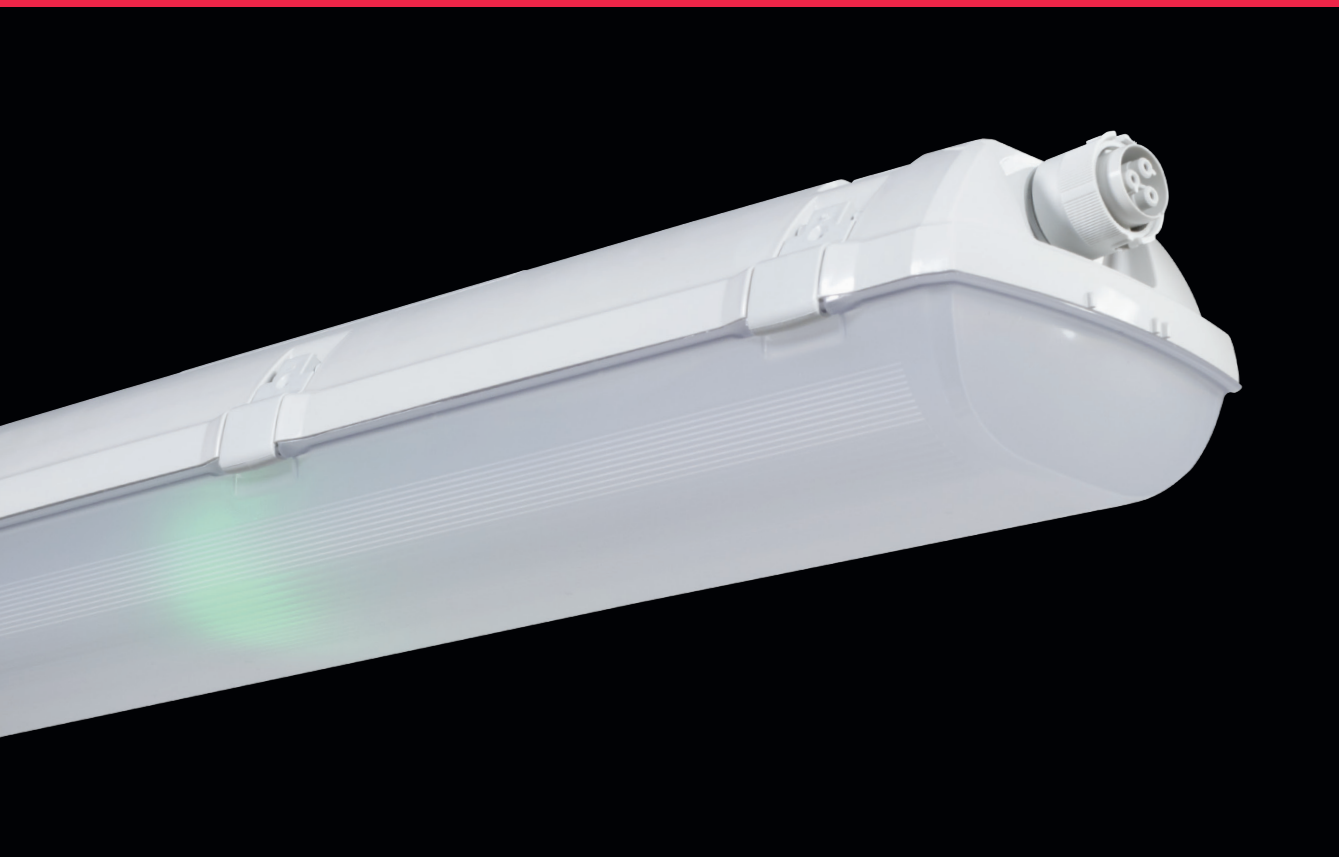


LIGHT FITTING DETAILED VIEW

PRIMA LED PC



FUTURA NM



... emergency.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with Futura and Innova light fittings.

It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

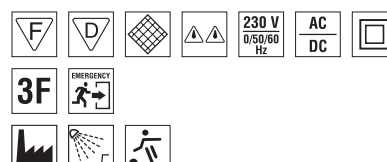
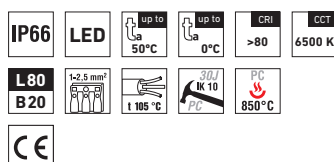
It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 193.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Emergency module **1h or 3h**
- Optional selection of EM kit with battery autotest

- Integrated diode for indication of correct operation
- Optional selection of battery type between **Ni-Cd or LiFePO₄**
- Low energy consumption in StandBy mode
- Optional selection of connection between **cable gland or connector**
- Insulation class II



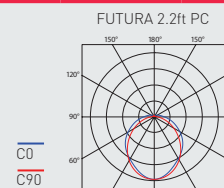
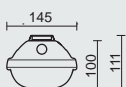
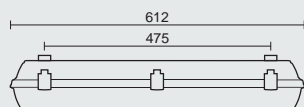
FUTURA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **t_a = 50 °C**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
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- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body groove
- Light fitting connection: **cable gland PG 13,5 / 16** or **connector**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment: **EM kit including Ni-Cd battery without autotest, LED module**
- **EM kit including LiFePO₄ battery with autotest, LED module**
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 7,5 %

Type	Autonomy [hrs]	Luminous flux of light fitting [lm]	Power in emergency mode [W]	Light fitting efficiency [lm/W]	Battery type	Power in standby mode [W]	Charging time [hrs]	Power in charging mode [W]	Net weight [kg]
Non-maintained emergency luminaire without autotest									
FUTURA 2.2ft PC NM1h	1	440	4,5	98	Ni-Cd	1,5	24	9	1,2
FUTURA 2.2ft PC NM3h	3	440	4,5	98	Ni-Cd	1,5	24	9	1,4
Non-maintained emergency luminaire with autotest									
FUTURA 2.2ft PC NM1hAt	1	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,2
FUTURA 2.2ft PC NM3hAt	3	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,4



FUTURA PC with cable glands	Non-maintained emergency luminaire without autotest - cable glands PG 13,5 / 16 - plastic clips			
Type	NM1h	3F NM1h	NM3h	3F NM3h
FUTURA 2.2ft PC ...	62410	62411	62413	62414

FUTURA PC with cable glands	Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - plastic clips			
Type	NM1hAt	3F NM1hAt	NM3hAt	3F NM3hAt
FUTURA 2.2ft PC ...	62420	62421	62423	62424

FUTURA PC with cable glands	Non-maintained emergency luminaire without autotest - cable glands PG 13,5 / 16 - stainless clips (c)			
Type	NM1h	3F NM1h	NM3h	3F NM3h
FUTURA 2.2ft PCc ...	62430	62431	62433	62434

FUTURA PC with cable glands	Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - stainless clips (c)			
Type	NM1hAt	3F NM1hAt	NM3hAt	3F NM3hAt
FUTURA 2.2ft PCc ...	62440	62441	62443	62444

LEGEND

- NM1h** – non-maintained emergency luminaire, operation time 1 hour
- 3F NM1h** – non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F)
- NM3h** – non-maintained emergency luminaire, operation time 3 hours
- 3F NM3h** – non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F)
- ...At** – version with battery autotest

Module signalling without autotest

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

Module signalling with autotest (At)

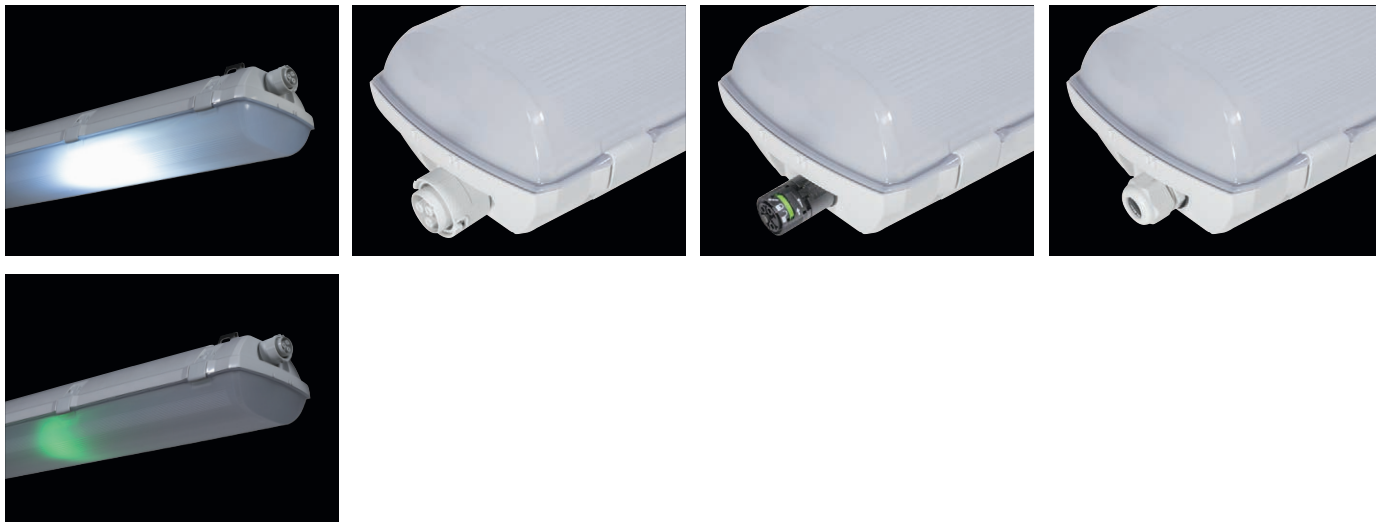
LED colour	Information
● green ● red	
flashing -	battery charging
- flashing	defective LED module
- shining	defective battery
- -	running test/emergency mode

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks

**LIGHT FITTING DETAILED VIEW**

FUTURA PC



TYLIUS LED



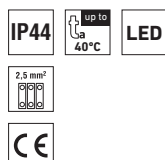
... emergency, orientation.

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 LiFePO₄ 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 **IP44**
- Maximum ambient temperature up to **t_a = 40 °C**
- Insulation: Class 2

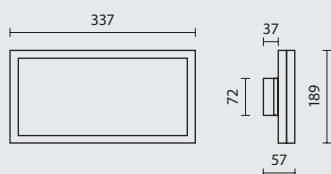


TYLIUS LED B



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: internally coated acrylic glass (PL), UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)



Code	Type	Autonomy [hrs]	Power in emergency mode [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						
41611	TYLIUS LED B 101 M1h	1	1	Ni-Cd HT	24	1,6
41612	TYLIUS LED B 102 M1h	1	2	Ni-Cd HT	24	1,6
41613	TYLIUS LED B 101 M3h	3	1	Ni-Cd HT	24	1,6
41614	TYLIUS LED B 102 M3h	3	2	Ni-Cd HT	24	1,7
Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest						
41615	TYLIUS LED B 101 M1hAt	1	1	LiFePO ₄	12	1,6
41616	TYLIUS LED B 102 M1hAt	1	2	LiFePO ₄	12	1,6
41617	TYLIUS LED B 101 M3hAt	3	1	LiFePO ₄	12	1,6
41618	TYLIUS LED B 102 M3hAt	3	2	LiFePO ₄	12	1,7

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

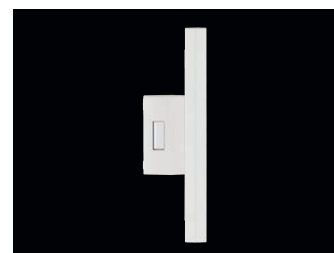
LIGHT FITTING ATTACHMENT

Directly to a wall with the use of screws



LIGHT FITTING DETAILED VIEW

TYLIUS LED B

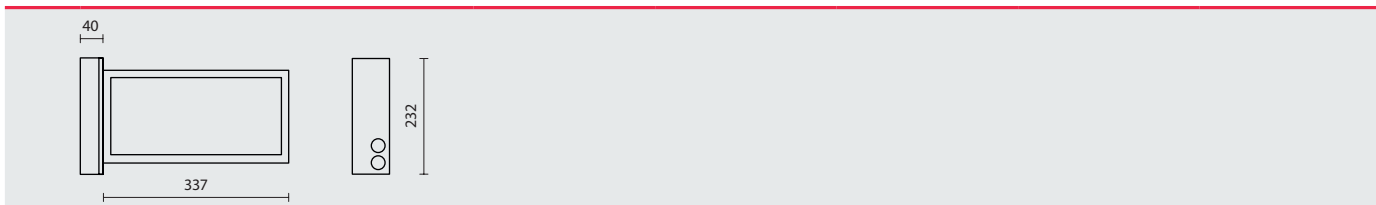


TYLIUS LED AW



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: internally coated acrylic glass (PL), UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)



Code	Type	Autonomy [hrs]	Power in emergency mode [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						
41621	TYLIUS LED AW 101 M1h	1	1	Ni-Cd HT	24	1,3
41622	TYLIUS LED AW 102 M1h	1	2	Ni-Cd HT	24	1,3
41623	TYLIUS LED AW 101 M3h	3	1	Ni-Cd HT	24	1,3
41624	TYLIUS LED AW 102 M3h	3	2	Ni-Cd HT	24	1,4
Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest						
41625	TYLIUS LED AW 101 M1hAt	1	1	LiFePO ₄	12	1,3
41626	TYLIUS LED AW 102 M1hAt	1	2	LiFePO ₄	12	1,3
41627	TYLIUS LED AW 101 M3hAt	3	1	LiFePO ₄	12	1,3
41628	TYLIUS LED AW 102 M3hAt	3	2	LiFePO ₄	12	1,5

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

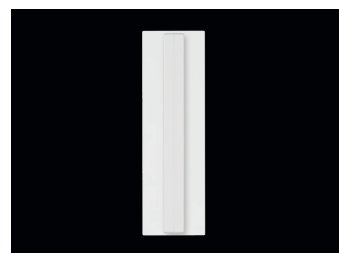
LIGHT FITTING ATTACHMENT

Directly to a wall with the use of screws



LIGHT FITTING DETAILED VIEW

TYLIUS LED AW

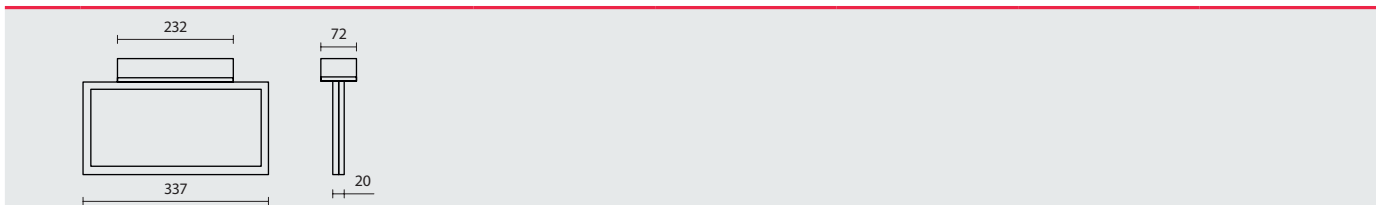


TYLIUS LED AC



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: internally coated acrylic glass (PL), UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)



Code	Type	Autonomy [hrs]	Power in emergency mode [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						
41631	TYLIUS LED AC 101 M1h	1	1	Ni-Cd HT	24	1,2
41632	TYLIUS LED AC 102 M1h	1	2	Ni-Cd HT	24	1,2
41633	TYLIUS LED AC 101 M3h	3	1	Ni-Cd HT	24	1,2
41634	TYLIUS LED AC 102 M3h	3	2	Ni-Cd HT	24	1,4
Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest						
41635	TYLIUS LED AC 101 M1hAt	1	1	LiFePO ₄	12	1,2
41636	TYLIUS LED AC 102 M1hAt	1	2	LiFePO ₄	12	1,2
41637	TYLIUS LED AC 101 M3hAt	3	1	LiFePO ₄	12	1,2
41638	TYLIUS LED AC 102 M3hAt	3	2	LiFePO ₄	12	1,4

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

- a) With the help of screws directly on the ceiling
 b) Installation into the ceiling with the help of accessories

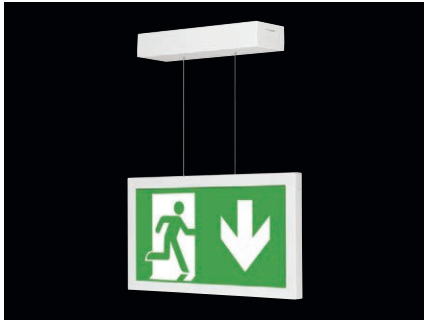


LIGHT FITTING DETAILED VIEW

TYLIUS LED AC

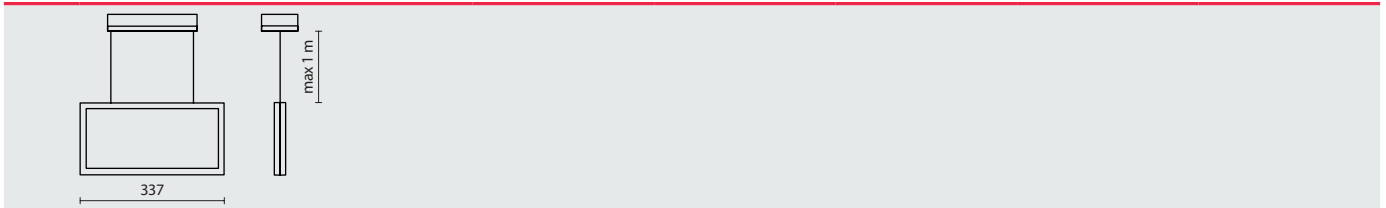


TYLIUS LED AL



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: internally coated acrylic glass (PL), UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)



Code	Type	Autonomy [hrs]	Power in emergency mode [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						
41641	TYLIUS LED AL 101 M1h	1	1	Ni-Cd HT	24	1,4
41642	TYLIUS LED AL 102 M1h	1	2	Ni-Cd HT	24	1,4
41643	TYLIUS LED AL 101 M3h	3	1	Ni-Cd HT	24	1,4
41644	TYLIUS LED AL 102 M3h	3	2	Ni-Cd HT	24	1,6
Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest						
41645	TYLIUS LED AL 101 M1hAt	1	1	LiFePO ₄	12	1,4
41646	TYLIUS LED AL 102 M1hAt	1	2	LiFePO ₄	12	1,4
41647	TYLIUS LED AL 101 M3hAt	3	1	LiFePO ₄	12	1,4
41648	TYLIUS LED AL 102 M3hAt	3	2	LiFePO ₄	12	1,6

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

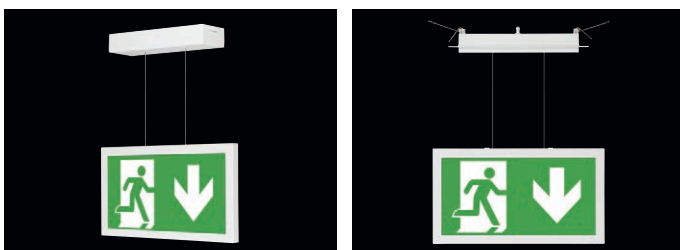
LED colour	Information
● green	
flashing	battery charging
-	running test/emergency mode

Module signalling with autotest (At)

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

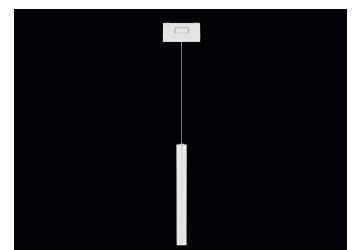
LIGHT FITTING ATTACHMENT

- a) Suspension from the ceiling with the help of screws and cable suspenders
 b) Installation into the ceiling with the help of accessories



LIGHT FITTING DETAILED VIEW

TYLIUS LED AL



HELIOS LED



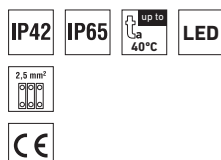
... emergency and orientation.

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 LiFePO₄ 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**
- Maximum ambient temperature up to **t_a = 40 °C**
- Insulation: Class 2



HELIOS LED



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)

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

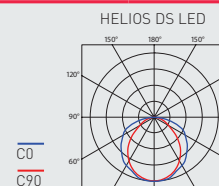
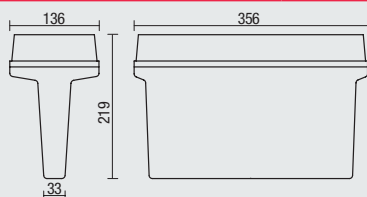


HELIOS DS LED



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- 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 LiFePO₄ (6,4V)



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



PLEXI LED



... emergency and orientation, into lower ceilings.

USE

The light fitting is suitable for emergency illumination of hallways and offices. It is intended for installation into plasterboard lower ceilings.

ADVANTAGES

- Emergency module **1 hr or 3 hrs**
- High-temperature **Ni-Cd HT** battery (M1h and M3h), or LiFePO₄ 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 **IP20**
- Maximum ambient temperature up to **t_a = 40 °C**
- Insulation: Class 1



LED

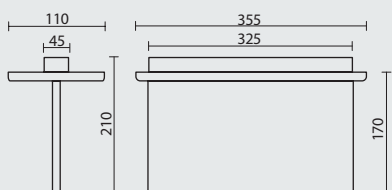


PLEXI LED



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: transparent plexi glass, UV stable
- Body: steel sheet, silver (RAL 9006)
- 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 LiFePO₄ (6,4V)



Code	Type	Autonomy [hrs]	Power in emergency mode [W]	Battery type	Charging time [hrs]	Net weight [kg]
Diffuser made of transparent plexi glass - emergency standby source for emergency (SE) lighting						
41519	PLEXI LED 101 NM1h	1	1	Ni-Cd HT	24	2,1
41539	PLEXI LED 101 NM3h	3	1	Ni-Cd HT	24	2,2
Diffuser made of transparent plexi glass - emergency standby source for both permanent (SA) and emergency (SE) lighting						
41518	PLEXI LED 101 M1h	1	1	Ni-Cd HT	24	2,0
41538	PLEXI LED 101 M3h	3	1	Ni-Cd HT	24	2,1
Diffuser made of transparent plexi glass - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest						
41548	PLEXI LED 101 M1hAt	1	1	LiFePO ₄	12	2,0
41568	PLEXI LED 101 M3hAt	3	1	LiFePO ₄	12	2,1
Diffuser made of transparent plexi glass - driver for central battery supply AC/DC (CB = central battery)						
41578	PLEXI LED 101 CB	-	1	-	-	2,1

Example of type marking: 41538 = PLEXI LED **M3h**

LEGEND

- M1-3h** - emergency back-up source with operating time of 1 - 3 hours (SA) for both permanent and emergency illumination
- M1-3hAt** - emergency back-up source with operating time of 1 - 3 hours (SA) for both permanent and emergency illumination with autotest
- NM1-3h** - emergency back-up source with operating time of 1 - 3 hours (SE) for emergency (non-maintained) illumination
- CB** - for central battery power supply AC/DC (CB = central battery)

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

Recessed into plasterboard lower ceilings



LIGHT FITTING DETAILED VIEW

PLEXI LED



Stickers with pictograms for emergency light fittings



Code	Type	Description	Dimensions [mm]
43901	Pictogram 01 HE	for HELIOS type - 25 m distance	125 x 250
41901	Pictogram 01 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



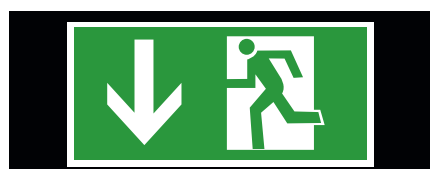
Code	Type	Description	Dimensions [mm]
43902	Pictogram 02 HE	for HELIOS type - 25 m distance	125 x 250
41902	Pictogram 02 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



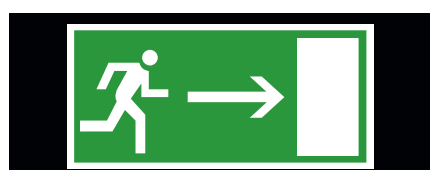
Code	Type	Description	Dimensions [mm]
43904	Pictogram 04 HE	for HELIOS type - 25 m distance	125 x 250
41904	Pictogram 04 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



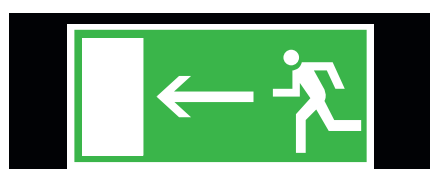
Code	Type	Description	Dimensions [mm]
43905	Pictogram 05 HE	for HELIOS type - 25 m distance	125 x 250
41905	Pictogram 05 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



Code	Type	Description	Dimensions [mm]
43906	Pictogram 06 HE	for HELIOS type - 25 m distance	125 x 250
41906	Pictogram 06 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



Code	Type	Description	Dimensions [mm]
43907	Pictogram 07 HE	for HELIOS type - 25 m distance	125 x 250
41907	Pictogram 07 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



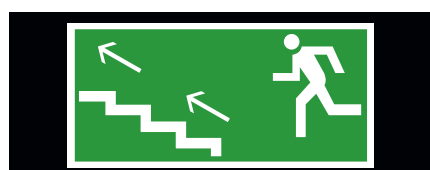
Code	Type	Description	Dimensions [mm]
43908	Pictogram 08 HE	for HELIOS type - 25 m distance	125 x 250
41908	Pictogram 08 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



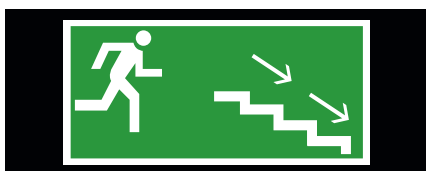
Code	Type	Description	Dimensions [mm]
43909	Pictogram 09 HE	for HELIOS type - 25 m distance	125 x 250
41909	Pictogram 09 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



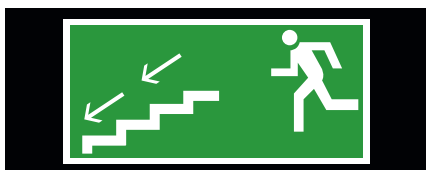
Code	Type	Description	Dimensions [mm]
43910	Pictogram 10 HE	for HELIOS type - 25 m distance	125 x 250
41910	Pictogram 10 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



Code	Type	Description	Dimensions [mm]
43911	Pictogram 11 HE	for HELIOS type - 25 m distance	125 x 250
41911	Pictogram 11 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



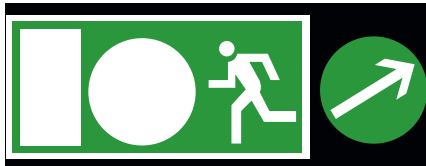
Code	Type	Description	Dimensions [mm]
43912	Pictogram 12 HE	for HELIOS type - 25 m distance	125 x 250
41912	Pictogram 12 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



Code	Type	Description	Dimensions [mm]
43913	Pictogram 13 HE	for HELIOS type - 25 m distance	125 x 250
41913	Pictogram 13 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



Code	Type	Description	Dimensions [mm]
43914	Pictogram 14 HE	for HELIOS type - 25 m distance	125 x 250
41914	Pictogram 14 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300



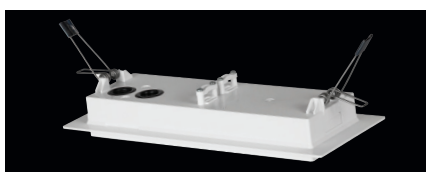
Code	Type	Description	Dimensions [mm]
43915	Pictogram 15 HE	for HELIOS type - 25 m distance	125 x 250
41915	Pictogram 15 PL	for TYLIUS and PLEXI types - 30 m distance	150 x 300

Protective grid



Code	Type	Description	Weight [kg]
43900	OM-HE, TG	protective grid for HELIOS types	0.4

Frame



Code	Type	Description	Weight [kg]
41900	TYLIUS frame	accessories for built-in installation for TYLIUS AC and TYLIUS AL light fitting types	0.4