- Powered by alkaline batteries so user not restricted by power point location
- Energy-saving LED technology
- Waterproof with IP68 (3 m, 30 min)
- Accessories for transportation

WebCode 6141B

The battery-powered 6141/61 series hand lamp is small enough to fit in your pocket, so that it is within easy reach whenever you need it. It uses energy-saving LEDs and features a pushbutton that enables you to switch the torch on and off with one hand. This hand lamp boasts IP68 level of protection, as well as ATEX and IECEx certification for use in hazardous areas in which an explosive atmosphere containing gas is present.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table

Product Description	Hand lamp			
Rated operational voltage DC	Battery version	Battery-Version	Art. No.	Weight
3 V	2 x AAA	2 x AAA	203478	85 g

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex ib IIB T4 Gb
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex ib IIB T4 Gb
Certificates	ATEX (BVS)
Ambient Conditions	
Ambient temperature	-20 °C ... +40 °C
Lighting Data	
Lamp	LED
Luminous flux	30 lm
Emergency light duration	~ 10 h
Mechanical Data	
Degree of protection (IP)	IP68 (3 m, 30 min.)
Enclosure material	Polycarbonate

Do not open lamp in hazardous locations!
For other battery types see operating instructions.

Hand Lamp LED
Series 6141/61

Accessories				
Figure	Description		Art. No.	Weight
Belt bag				
	black		204142	30 g
Fibre optic top piece				
	Length approx. 250 mm; black		203970	30 g

Spare Parts				
Figure	Description		Art. No.	Weight
Battery				
	4 x Daimon (by Duracell) LR03		204144	300 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations
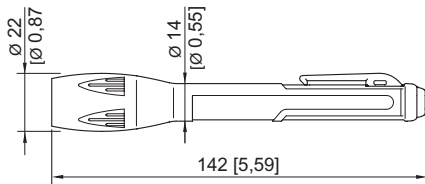
Ø 22 [Ø 0,87]   Ø 14 [Ø 0,55]

142 [5,59]

2

- Powered by alkaline batteries so user not restricted by power point location
- Energy-saving LED technology
- Waterproof with IP68 (3 m, 30 min)
- Accessories for signalling and transportation

WebCode 6141C

The battery-powered 6141/62 series hand lamp is excellent for maintenance work and inspections. It uses energy-saving LEDs and features a pushbutton that enables you to switch the torch on and off with one hand. This hand lamp boasts IP68 level of protection, as well as ATEX and IECEx certification.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		●	●		●	●

Selection Table

Product Description	Hand lamp		Art. No.	Weight
Rated operational voltage DC	Battery version	Battery-Version		
6 V	4 x AA	4 x AA	243788	190 g

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex ib IIB T4 Gb
IECEx dust explosion protection	Ex ib IIIC T105 °C Db
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex ib IIB T4 Gb
ATEX dust explosion protection	⟨Ex⟩ II 2 D Ex ib IIIC T105 °C Db
Certificates	ATEX (BVS)
Ambient Conditions	
Ambient temperature	-20 °C ... +40 °C
Lighting Data	
Lamp	LED
Luminous flux	120 lm
Emergency light duration	~ 15 – 50 h
Mechanical Data	
Degree of protection (IP)	IP68 (3 m, 30 min.)
Enclosure material	Polycarbonate

Do not open lamp in hazardous locations!
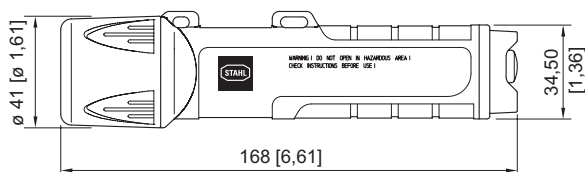For other battery types see operating instructions.

E2

Accessories

Figure	Description	Art. No.	Weight
Belt bag			
	black	204141	37 g
Fibre optic top piece			
	Length approx. 250 mm; black	203969	25 g

Spare Parts

Figure	Description	Art. No.	Weight
Battery			
	4 x Energizer AA/LR6	204143	350 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

ø 41 [ø 1,61]

WARNING ! DO NOT OPEN IN HAZARDOUS AREA !
CHECK INSTRUCTIONS BEFORE USE !

STAHL

34,50 [1,36]

168 [6,61]

- Energy-saving, bright LED technology
- Approved in accordance with the relevant firefighting standard
- Lamp head pivots 190°
- Incredibly lightweight
- Main light continuously dimmable
- Long battery life
- Ergonomic one-hand operation

MY R. STAHL **6148A**

The ergonomic design of the 6148 series portable LED lamp allows you to operate this lamp with just one hand. Its brightness can be freely adjusted; alternatively, it can be set to flashing mode. The pivoting lamp head allows you to direct the light cone virtually anywhere. Coloured diffusing lenses are available as accessories, and transform your lamp into a portable Ex beacon. It approved for use in vehicles, and when connected to the charging unit, has an emergency lighting function.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Ex version	Yes
Battery-Version	Lead-fleece battery, Maintenance-free, 6 V, 4.5 Ah
Approval for motor vehicles	E1 10 R - 036569

Figure	Product Description	Lamp	Type of connection cable	Product Type	Art. No.	Weight
	LED portable lamp	LED	–	6148/1111-101	209687	1.55 kg
	LED portable lamp Complete set	LED	Charging cable 12 to 30 V DC	6148/3111-111	268713	1.9 kg
	LED portable lamp Complete set	LED	Charging cable 110 to 240 V AC	6148/1111-111	209686	1.83 kg

The complete set is delivered including charging unit and a charging cable for 230 V. A charging cable for 12/24 V can be ordered as accessories.
The charging unit should only be used in safe areas.

The charging unit is equipped with three fastening holes for table mounting (see dimensional drawings). A wall bracket for wall mounting is available as accessories.
A shoulder strap, belt hook and coloured diffusing lenses for the portable lamp are available as accessories. A clear diffusing lense is included in the delivery of the portable lamp and the complete set.

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex ib IIC T4 Gb
IECEx dust explosion protection	Ex tb IIIC T75 °C Db
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex ib IIC T4 Gb
ATEX dust explosion protection	⟨Ex⟩ II 2 D Ex tb IIIC T75 °C Db

1

Portable Lamps LED
Series 6148

Technical Data	
Explosion Protection	
Certificates	ATEX (IBE), IECEx (IBE)
Declaration of Conformity	ATEX (EUK)
Ambient Conditions	
Ambient temperature	-20 °C ... +50 °C
Storage temperature	-25 °C ... +60 °C
Lighting Data	
Light colour	6500 K
Light intensity	40000 cd
Light distribution	In accordance with DIN 14642
Mechanical Data	
Degree of protection (IP)	IP66
Class	II (double insulated)
Enclosure material	Polyamide, Impact resistant
Headlamp head tilting function	Front: 100°, rear: 90°
Enclosure colour	Black
Components	
Battery-Version	Lead-fleece battery, Maintenance-free, 6 V, 4.5 Ah

Accessories			
Figure	Description	Art. No.	Weight
Adaptor for external charging unit.			
	for charging the portable lamp in the KFZ90 or LG443 charging unit	212701	344 g
Belt hook			
	for fastening the portable lamp to the belt	212331	40 g
Diffusing lens			
	orange	212334	12 g
	clear	212333	14 g
	red	212956	12 g
	green	220306	13 g

Accessories

Figure	Description	Art. No.	Weight
Shoulder strap			
	for carrying the portable lamp	212702	50 g
Wall bracket			
	for wall mounting the charging unit	212332	260 g

Spare Parts

Figure	Description	Art. No.	Weight
Battery			
	for 6148 lead-fleece battery, 6 V, 4.5 Ah	211124	720 g
Charging unit			
	for 6148 (12 – 30 V DC and 100 – 240 V AC)	209688	380 g
Connection cable			
	230 V charging cable with plug	120014	75 g
	12/24 V charging cable with plug	212316	22 g

E2 | **Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**

143 [5,63]

279 [10,98]

92 [3,62]

Portable lamp

ø 4,50 [ø 0,18]

90 [3,54]

64 [2,52]

25 [0,98]

154 [6,06]

79 [3,11]

140 [5,51]

Changing unit
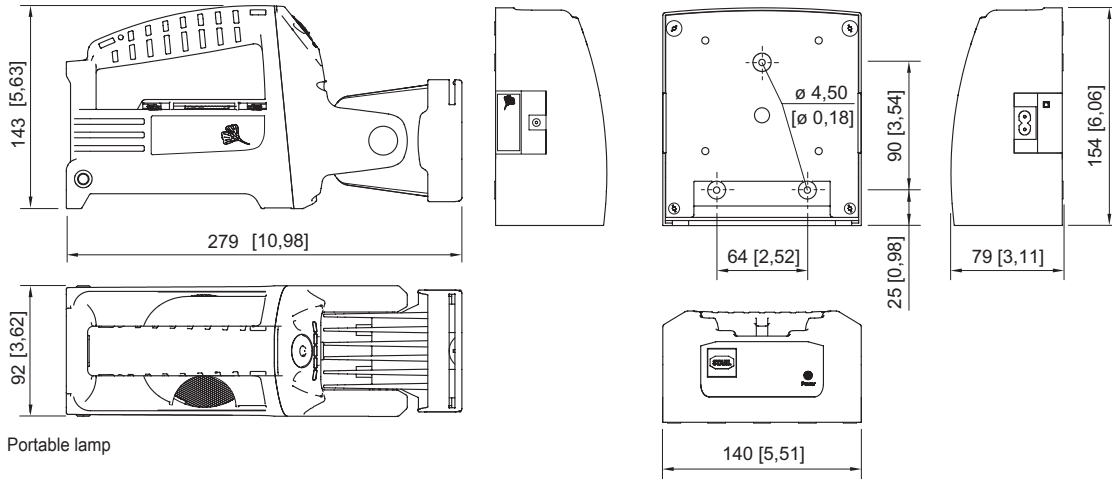
- For use in the safe area
- Latest LED technology
- Very high light intensity
- Low weight
- Lamp head pivoting by 190°
- Main light continuously dimmable
- Long battery life
- Ergonomic one-hand operation

MY R. STAHL L148A

The L148 series LED portable lamp for use in non-hazardous areas is ergonomically designed to enable you to operate it with one hand. Its brightness can also be freely adjusted. Switching it to flashing mode allows you to use it as a signal beacon if required. Coloured diffusing lenses are available as accessories for this.
The pivoting lamp head allows you to direct the light cone virtually anywhere.
The portable lamp is approved for use in vehicles, and when connected to the charging unit, has an emergency lighting function.

Selection Table

Ex version	Industrial design
Battery-Version	Lead-fleece battery, maintenance-free, 6 V, 4 Ah
Approval for motor vehicles	E1 10 R - 036569

Figure	Product Description	Lamp	Product Type	Art. No.	Weight
	LED portable lamp	LED	L148/1111-100	225000	1.55 kg
	LED portable lamp Complete set	LED	L148/1111-111	225779	1.8 kg

The complete set is delivered including charging unit and a charging cable for 230 V. A charging cable for 12/24 V can be ordered as accessories.
The charging unit is equipped with three fastening holes for table mounting (see dimensional drawings). A wall bracket for wall mounting is available as accessories.
A shoulder strap, belt hook and coloured diffusing lenses for the portable lamp are available as accessories.
A clear diffusing lens is included in the delivery of the portable lamp and the complete set.
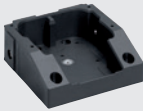
Technical Data

Ambient Conditions	
Ambient temperature	-20 °C ... +50 °C
Storage temperature	-25 °C ... +50 °C
Lighting Data	
Light colour	6500 K
Light intensity	24000 cd
Light distribution	In accordance with DIN 14642
Mechanical Data	
Degree of protection (IP)	IP66
Class	II (double insulated)
Enclosure material	Polyamide, Impact resistant
Headlamp head tilting function	Front: 100°, rear: 90°
Enclosure colour	Black

1

Portable Lamps LED
Series L148 Industrial Design

Technical Data

Components	
Battery-Version	Lead-fleece battery, maintenance-free, 6 V, 4 Ah

Accessories

Figure	Description	Art. No.	Weight
Adaptor for external charging unit.			
	for charging the portable lamp in the KFZ90 or LG443 charging unit	212701	344 g

Spare Parts

Figure	Description	Art. No.	Weight
Charging unit			
	for 6148 (12 – 30 V DC and 100 – 240 V AC)	209688	380 g
	for L148 (12 – 30 V DC and 110 – 240 V AC)	225781	380 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

ø 4,50 [ø 0,18]

90 [3,54]

64 [2,52]

25 [0,98]

79 [3,11]

154 [6,06]

143 [5,63]

279 [10,98]

92 [3,62]

Portable lamp

140 [5,51]

Changing unit
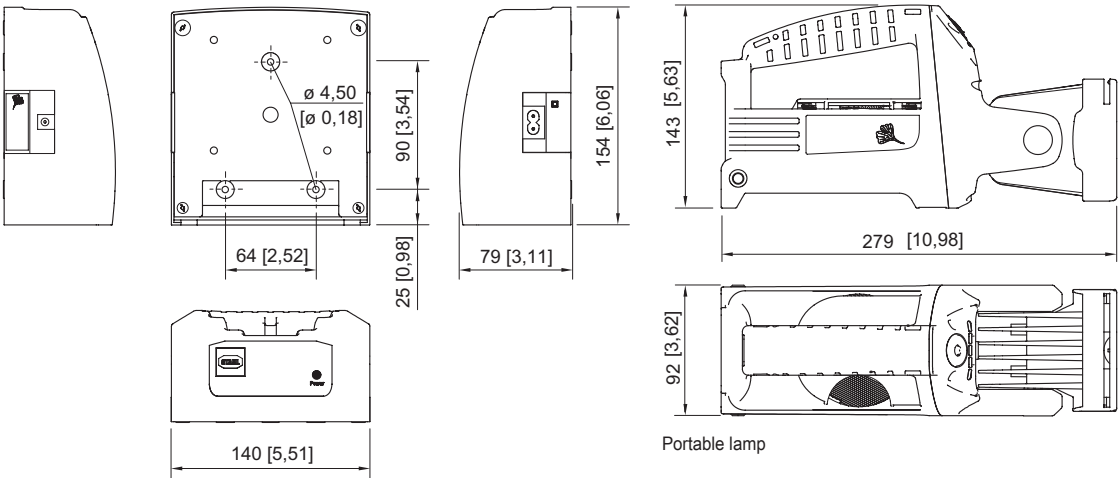
- Long-life, energy-saving, midpower LEDs embody design innovation
- For 110 to 240 V AC/DC, 24 to 48 V AC/DC or 12 V DC
- Standard version with diffuser for reduced glare and H07-RNF connection line, 2 x 1.5 mm²
- Further connection lines and connectors available as options

MY R. STAHL 6149B

The 6149 inspection light is a versatile light that allows you to see into every corner. This is all down to its state-of-the-art LED technology, coupled with its long-life electronics, which have been developed in-house by R. STAHL and exhibit high energy efficiency and superior illuminance. The innovative design of the enclosure makes the light extremely slim and lightweight. Its lockable suspension hooks and practical anti-roll protection make it ideal for use in the workshop.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Gas temperature class			T4				
Luminous flux			1396 lm				
Rated operational voltage DC	Rated operational voltage AC	Wire guard	Cable length	Ambient temperature	Product Type	Art. No.	Weight
24 ... 48 V	24 ... 48 V	Yes	10 m	-40 °C ... +60 °C	6149/2-3511-7011	274015	2.45 kg
110 ... 240 V	110 ... 240 V	No	5 m	-30 °C ... +60 °C	6149/2-5511-5010	273970	1.45 kg
		No	10 m	-30 °C ... +60 °C	6149/2-5511-7010	273995	2.28 kg
		No	20 m	-30 °C ... +60 °C	6149/2-5511-8010	273996	3.53 kg
12 V	–	No	5 m	-40 °C ... +40 °C	6149/2-2511-5010	273991	1.66 kg
		Yes	5 m	-40 °C ... +40 °C	6149/2-2511-5011	274013	1.83 kg
24 ... 48 V	24 ... 48 V	No	5 m	-40 °C ... +60 °C	6149/2-3511-5010	273969	1.45 kg
		No	10 m	-40 °C ... +60 °C	6149/2-3511-7010	273994	3.44 kg
		No	20 m	-40 °C ... +60 °C	6149/2-3511-8010	274016	3.22 kg
		Yes	5 m	-40 °C ... +60 °C	6149/2-3511-5011	273999	1.62 kg
		Yes	20 m	-40 °C ... +60 °C	6149/2-3511-8011	274003	3.7 kg
110 ... 240 V	110 ... 240 V	Yes	5 m	-30 °C ... +60 °C	6149/2-5511-5011	274007	1.83 kg
		Yes	10 m	-30 °C ... +60 °C	6149/2-5511-7011	274009	2.45 kg
		Yes	20 m	-30 °C ... +60 °C	6149/2-5511-8011	274006	3.7 kg

Inspection Light LED
Series 6149

E2

Selection Table

| Gas temperature class | | | | | T6 | | |
| Luminous flux | | | | | 1396 lm | | |

Rated operational voltage DC	Rated operational voltage AC	Wire guard	Cable length	Ambient temperature	Product Type	Art. No.	Weight
24 ... 48 V	24 ... 48 V	No	10 m	-40 °C ... +40 °C	6149/2-3611-7010	274033	2.28 kg
		Yes	10 m	-40 °C ... +40 °C	6149/2-3611-7011	274034	2.45 kg
110 ... 240 V	110 ... 240 V	No	5 m	-30 °C ... +40 °C	6149/2-5611-5010	274032	1.45 kg
		Yes	5 m	-30 °C ... +40 °C	6149/2-5611-5011	274038	1.83 kg
		No	10 m	-30 °C ... +40 °C	6149/2-5611-7010	274040	2.28 kg
		Yes	10 m	-30 °C ... +40 °C	6149/2-5611-7011	274039	2.45 kg
		No	20 m	-30 °C ... +40 °C	6149/2-5611-8010	274037	3.15 kg
		Yes	20 m	-30 °C ... +40 °C	6149/2-5611-8011	274043	3.7 kg

The inspection light is delivered without plug and wire guard. Specify the plug on order. See accessories and spare parts.

Variants without wire guard can be equipped with a wire guard at a later stage. See accessories and spare parts.

Technical Data

Variant	Gas temperature class T4	Gas temperature class T6
Explosion Protection		
IECEx gas explosion protection	Ex d IIC T4 Gb	Ex d IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T100 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	ⓔ II 2 G Ex d IIC T4 Gb	ⓔ II 2 G Ex d IIC T6 Gb
ATEX dust explosion protection	ⓔ II 2 D Ex tb IIIC T100 °C Db	ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), IECEx (PTB)	ATEX (PTB), IECEx (PTB)
Declaration of Conformity	ATEX (EGK)	ATEX (EGK)
Lighting Data		
Lamp	Single-row LED	Single-row LED
Mechanical Data		
Degree of protection (IP)	IP66 / IP67	IP66 / IP67
Class	III	III
Enclosure material	Aluminium	Aluminium
Pipe material	Polycarbonate	Polycarbonate
Type of connection cable	H07RN-F 2x1.5 mm²	H07RN-F 2x1.5 mm²

Accessories

| Figure	Description	Art. No.	Weight
Mounting bracket			
	Mounting bracket made from galvanised sheet steel (x 2 units); for design size 1	120535	48 g
Mounting bracket and magnet			
	Mounting bracket made from galvanised sheet steel with magnetic base (x 2 units); for design size 1	120536	100 g

2

Accessories

Figure	Description	Art. No.	Weight
Plug			
	8570/12-304-S-XX-X-XX-XXX 3-pole plug, 100 to 130 V AC, 50/60 Hz, 16 A	272896	331 g
	8570/12-306-S-XX-X-XX-XXX 3-pole plug, 200 to 250 V AC, 50 / 60 Hz, 16 A	272898	331 g
	8573/12-200 2-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243197	300 g
	8573/12-210 2-pole, 20 to 25 V, DC, 16 A	243203	300 g
	8573/12-300 3-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243190	300 g
	8573/12-312 3-pole, 40 to 50 V, 50 / 60 Hz, 16 A	243195	300 g

Spare Parts

Figure	Description	Art. No.	Weight
Wire guard			
	Stainless steel protective cage For additional mechanical protection	120509	170 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

without wire guard

with wire guard
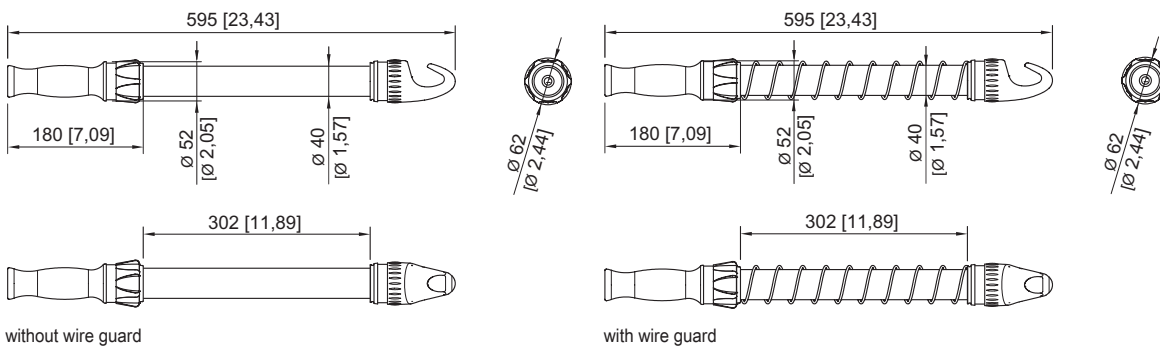
- Long-life, energy-saving, midpower LEDs embody design innovation
- For 110 to 240 V AC/DC or 24 to 48 V AC/DC
- Standard version with diffuser for reduced glare and H07-RNF connection line, 2 x 1.5 mm²
- Further connection lines and connectors available as options

WebCode 6149A

The L149 inspection light is a versatile light that allows you to see into every corner. This is all down to its state-of-the-art LED technology, coupled with its long-life electronics, which have been developed in-house by R. STAHL and exhibit high energy efficiency and superior illuminance. The innovative design of the enclosure makes the light extremely slim and lightweight. Its lockable suspension hooks and practical anti-roll protection make it ideal for use in the workshop.

Selection Table

Gas temperature class				T6				
Rated operational voltage DC	Rated operational voltage AC	Cable length	Wire guard	Luminous flux	Ambient temperature	Product Type	Art. No.	Weight
24 – 48 V	24 – 48 V	5 m	No	1396 lm	-40 °C ... +40 °C	L149/2-3311-5010	264846	1.25 kg
110 – 240 V	110 – 240 V	2.5 m	No	1396 lm	-30 °C ... +40 °C	L149/2-5311-2010	252281	1.15 kg
		5 m	No	1396 lm	-30 °C ... +40 °C	L149/2-5311-5010	246909	1.45 kg

The inspection light is delivered without plug and wire guard. Specify the plug on order. See accessories and spare parts.

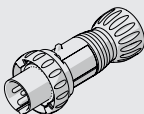Variants without wire guard can be equipped with a wire guard at a later stage. See accessories and spare parts.

Technical Data

Explosion Protection	
Class	II (double insulated)
Lighting Data	
Lamp	Single-row LED
Mechanical Data	
Degree of protection (IP)	IP66 / IP67
Class	II (double insulated)
Enclosure material	Aluminium
Pipe material	Polycarbonate
Type of connection cable	H07RN-F 2x1.5 mm²

Accessories

Figure	Description	Art. No.	Weight
Mounting bracket			
	Mounting bracket made from galvanised sheet steel (x 2 units); for design size 1	120535	48 g

1

E2

Accessories

Figure	Description	Art. No.	Weight
Mounting bracket and magnet			
	Mounting bracket made from galvanised sheet steel with magnetic base (x 2 units); for design size 1	120536	100 g
Plug			
	8570/12-304 3-pole, 100 to 130 V AC, 50 / 60 Hz, 16 A	257778	331 g
	8570/12-306 3-pole, 200 to 250 V AC, 50 / 60 Hz, 16 A	257780	331 g
	8573/12-200 2-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243197	300 g
	8573/12-210 2-pole, 20 to 25 V, DC, 16 A	243203	300 g
	8573/12-300 3-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243190	300 g
	8573/12-312 3-pole, 40 to 50 V, 50 / 60 Hz, 16 A	243195	300 g

Spare Parts

Figure	Description	Art. No.	Weight
Wire guard			
	Stainless steel wire guard for additional mechanical protection	120509	170 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

without wire guard

with wire guard