



SAFETY LIGHTING FOR
INCREASED REQUIREMENTS

MORE STRINGENT REQUIREMENTS

Challenges for emergency lighting

Apart from the standard applications for emergency lighting, there are areas in many properties with special requirements. These include **increased humidity, extreme temperatures, explosive atmospheres as well as mechanical and chemical influences.**

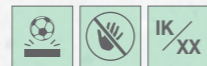
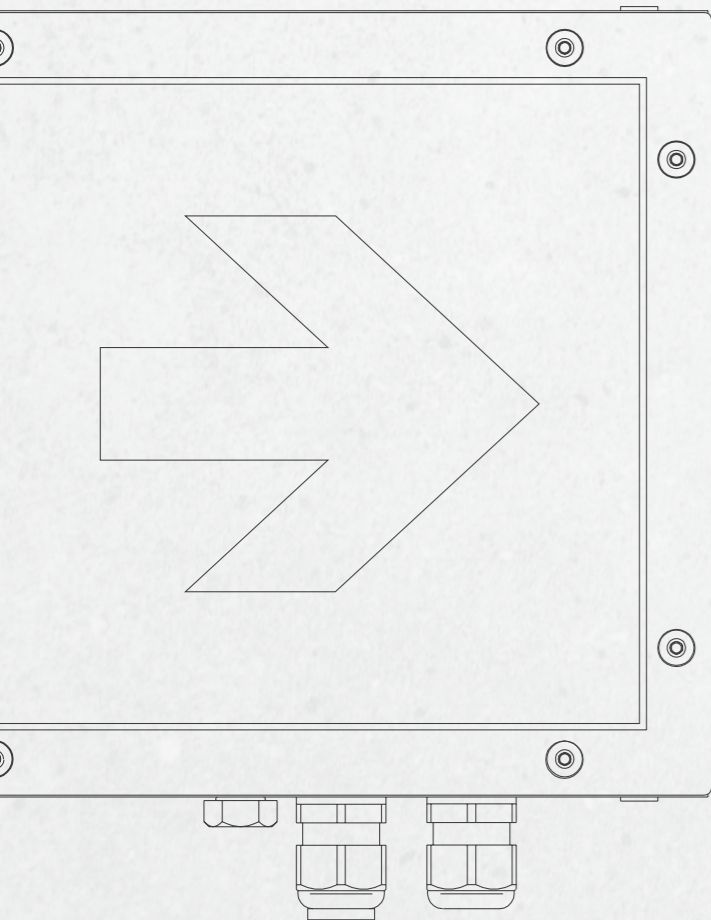
From the individual requirements and experience gained from over 31,740 implemented projects, we have developed products with the necessary properties to ensure **safety** in the building even under the **toughest conditions**.



DID YOU KNOW?



According to OVE E 8101, part 4-42, point 422.3, the following shall apply. Lights for areas with increased fire risk must have a limited surface temperature and resulting **D marking** according to OVE/ÖNORM EN 60598-2-24. Our **certified solutions** can be found on pages 24, 26, 28, 44, 52, 56, 58, 60 and 62.



Shock-resistant

Highly robust solutions.
Selected materials allow for up to **IK 10** the highest impact classification **cited in EN 62262**. Ball impact safety tests are implemented per **DIN 18032-3**.



IP protected

Solutions for dust and water protection.
Products with **IP65, IP66 and IP68** per EN 60529 deliver the highest level of sealing to withstand dust and water.



Temperature resistant

Solutions from -30°C to +45°C.
Emergency lighting must also function under extreme temperatures. We back up this quality claim with the **50,000 h / 5.7 years din full guarantee on products** for the temperature range stated.



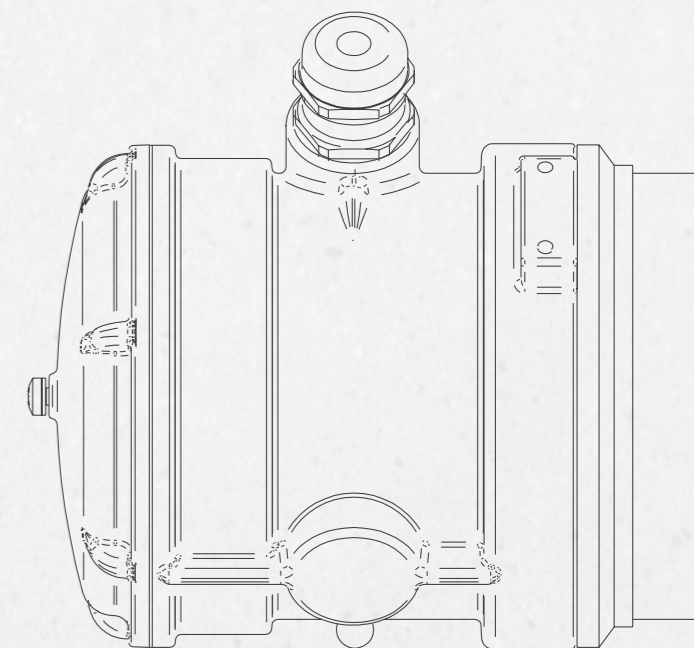
Explosion-proof

Solutions for gas and dust Ex areas.
Certified, explosion-protected luminaires enable the legally required safety lighting to be realised in gas Ex areas of **zones 1 and 2**, as well as in dust Ex areas of **zones 21 and 22**.



Chemical-resistant

Solutions for special chemical influences.
The influence of chemical substances on the materials of the luminaires and the installed components depends on many factors such as material composition, concentration, exposure time, humidity and the level of ambient temperatures. This special field of application requires a **detailed clarification with your din contact person in advance**. If required, we can also implement special solutions for your project.





AREAS OF APPLICATION

Do you have special areas of application and want to know which luminaires are suitable for you? The detailed **overview** on page 70 will help you with your selection.

SAFETY LIGHTING FOR OUTDOOR USE

- P. 08 TUBE 2
- P. 10 TUBE-264
- P. 12 SHAPE SL
- P. 14 FLAP SL
- P. 16 POLLER E 1050
- P. 18 POLLER R 1200
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- P. 22 Eye PRO 3
- P. 24 CONCEPT 2
- P. 30 BASIC 2

SAFETY LIGHTING FOR DIFFICULT ENVIRONMENTAL CONDITIONS

- P. 34 INDUSTRY X32
- P. 38 INDUSTRY X32 FSU
- P. 42 INDUSTRY RL80
- P. 44 INDUSTRY E35
- P. 46 INDUSTRY FSU
- P. 52 BASIC 2 ICE

SAFETY LIGHTING FOR POTENTIALLY EXPLOSIVE AREAS

- P. 56 INDUSTRY EX X32
- P. 64 CONCEPT EX

Technical documentation
for our solutions.



SAFETY LIGHTING FOR OUTDOOR USE

Standard-compliant emergency lighting means that safety lighting must be positioned near each last exit and outside the building **up to a safe area** in accordance with ÖNORM EN 1838, point 4.1.2 g).

Our outdoor safety lighting covers this standard and also other essential requirements: sufficient light, robust, UV-stabilised, high protection class and discreet design.



More about our
outdoor solutions.



TUBE 2

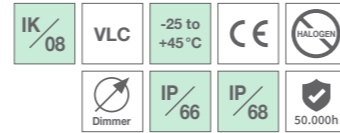
LUMINAIRES FOR OUTDOOR USE



TUBE 2 safety luminaire
Handrail mounting
Item no. (illustration):
9023 09 4508 TUBE 2-PLC24-1-42, 4000 K, sym. refl.

Technical data

Installation type:	Flush handrail mounting
Housing:	Highly impact-resistant polycarbonate with integrated reflector
Protection class:	◆ (PLC24)
Protection type:	IP66/IP68 with immersion depth 1.2 m
IK Impact resistance level:	IK08
Temperature range:	-25 °C to +45 °C
Light colour:	3000 K, 4000 K



Lighting technology and dimensional drawings

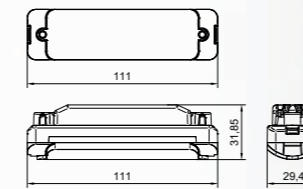
Installation height [m]	Symmetrical reflector rotated 35°		Asymmetrical reflector rotated 15°	
	1 lux	1 lux	1 lux	1 lux
	0.5W		1W	
0.70	1.5	3.9	1.9	4.8
0.75	1.6	4.2	2.1	4.9
0.80	1.6	4.3	2.1	5.1
0.85	1.7	4.5	2.2	5.3
0.90	1.8	4.5	2.2	5.4
0.95	1.8	4.6	2.3	5.5
1.00	1.9	4.8	2.4	5.7

Spacing table, symmetrical reflector rotated 35° to the front, 3000 K/4000 K,
Escape route width: 2 m, maintenance factor 0.57

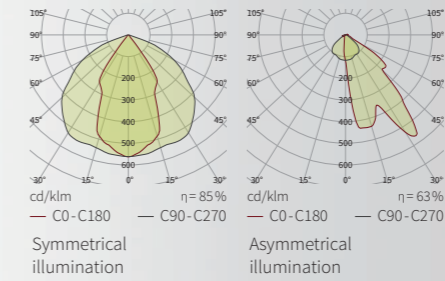
Installation height [m]	Symmetrical reflector rotated 35°		Asymmetrical reflector rotated 15°	
	1 lux	1 lux	1 lux	1 lux
	0.5W		1W	
0.70	1.5	4.0	1.9	4.8
0.75	1.5	4.2	2.1	5.0
0.80	1.6	4.3	2.1	5.2
0.85	1.7	4.5	2.2	5.4
0.90	1.8	4.5	2.2	5.5
0.95	1.8	4.6	2.3	5.7
1.00	1.8	4.6	2.3	5.7

Spacing table, asymmetrical reflector rotated 15° to the front, 3000 K/4000 K,
Escape route width: 2 m, maintenance factor 0.57

Dimensional drawings [mm]:



Light distribution:



TUBE 2 - Recessed mounting
Note: Dimensional drawings for the cut-out are available as a dxf file on request. Note the optimal tube diameter 42.4 mm, Material thickness 2 mm!



Safety lights

9023 09 3523	TUBE 2-PLC24-05-42, 3000 K, sym. refl.
9023 09 4523	TUBE 2-PLC24-05-42, 4000 K, sym. refl.
9023 09 3508	TUBE 2-PLC24-1-42, 3000 K, sym. refl.
9023 09 4508	TUBE 2-PLC24-1-42, 4000 K, sym. refl.
9023 09 3524	TUBE 2-PLC24-05-42, 3000 K, asym. refl.
9023 09 4524	TUBE 2-PLC24-05-42, 4000 K, asym. refl.
9023 09 3509	TUBE 2-PLC24-1-42, 3000 K, asym. refl.
9023 09 4509	TUBE 2-PLC24-1-42, 4000 K, asym. refl.

TUBE-264

LUMINAIRES FOR OUTDOOR USE

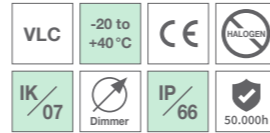


TUBE-264 safety luminaire
Wall mounting, 4000 K

Item no. (illustration):
9023 09 4221 TUBE-264-PLC24-2-M, 4000 K, without light guidance
9023 00 0008 TUBE-264-M Wall-mounted housing

Technical data

Installation type:	Handrail mounting, ceiling mounting, recessed ceiling mounting, wall mounting and ground-level wall mounting
Housing:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Protection class:	⬢ (PLC24)
Protection type:	IP66
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Light colour:	3000 K, 4000 K



Safety lights

9023 09 31xx	TUBE-264-PLC24-1-x, 3000 K, x
9023 09 41xx	TUBE-264-PLC24-1-x, 4000 K, x
9023 09 32xx	TUBE-264-PLC24-2-x, 3000 K, x
9023 09 42xx	TUBE-264-PLC24-2-x, 4000 K, x
9023 09 3125	TUBE-264-PLC24-1-M, 3000 K, with reflector
9023 09 4125	TUBE-264-PLC24-1-M, 4000 K, with reflector
9023 09 3225	TUBE-264-PLC24-2-M, 3000 K, with reflector
9023 09 4225	TUBE-264-PLC24-2-M, 4000 K, with reflector

Accessories

9023 00 0003	Drywall element TUBE-264
9023 00 0004	Concrete casting box TUBE-264
9023 00 0005	Cover housing TUBE-264*
9023 00 0007	TUBE-264-M Ceiling-mounted housing
9023 00 0008	TUBE-264-M Wall-mounted housing

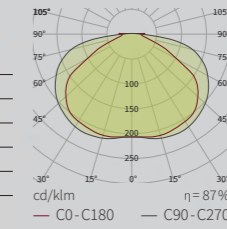
Light item number logic

xxxx xx xx0x	Round safety light for handrail Type „R”
xxxx xx xx1x	Rectangular safety light for handrail Type „E”
xxxx xx xx2x	Safety light for recessed mounting Type „M”
xxxx xx xxx1	without light guidance
xxxx xx xxx2	symmetrical
xxxx xx xxx3	asymmetrical
xxxx xx xxx4	opal

Lighting technology and dimensional drawings

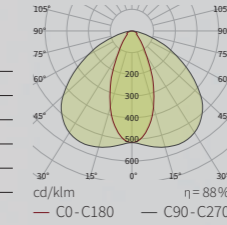
Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	2.2 3.1	6.2 7.8	6.7 8.9	2.2 3.3
3.0	1.9 3.1	6.3 8.5	6.7 9.2	2.1 3.3
3.5	1.5 3.1	6.3 8.8	6.6 9.4	1.6 3.3
4.0	- 2.9	5.9 8.9	6.2 9.5	- 3.1
4.5	- 2.6	4.8 9.0	5.1 9.4	- 2.8

Recessed ceiling mounting without light guidance 1W | 2W, 3000 K / 4000 K, Maintenance factor 0.57



Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	1.4 1.8	3.7 4.7	7.9 9.7	3.2 3.9
3.0	1.5 1.9	4.0 4.9	8.6 10.5	3.4 4.3
3.5	1.6 2.1	4.2 5.3	9.1 11.2	3.5 4.5
4.0	1.6 2.1	4.3 5.5	9.5 11.9	3.5 4.7
4.5	1.5 2.2	4.5 5.8	9.8 12.4	3.4 4.9

Recessed ceiling mounting symmetrical light guidance 1W | 2W, 3000 K / 4000 K, Maintenance factor 0.57

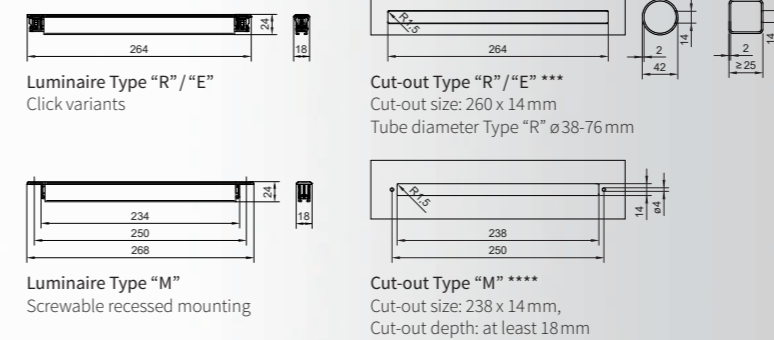


Installation height [m]	1 lux	1 lux	50 lux (Em)**
	Emergency light 1W		Increased requirements 2W
0.70	1.9	4.7	2.1
0.75	1.9	4.8	1.9
0.80	2.0	4.9	1.8
0.85	2.1	5.1	1.8
0.90	2.1	5.2	1.8
0.95	2.2	5.4	1.7
1.00	2.2	5.5	1.6

Handrail mounting, symmetrical light guidance 35° turned to the front, 3000 K / 4000 K, Escape route width: 2 m, maintenance factor 0.57

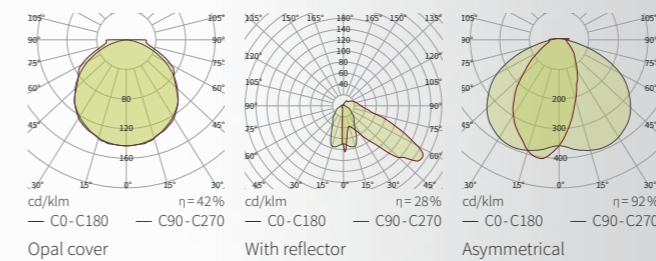


Dimensional drawings [mm]:



NOTE: Detailed dimensional drawings for the cut-outs are available as a dxf file on request.

Light distributions without distance tables:



* Cover for cavity assemblies accessible from the rear.
** Average illuminance (Em) of at least 50 lux along a 1 m wide path.
*** Type "E": The possible dimensions of the profile must be coordinated with the cabling used in the course of the overall project planning. Note the Type "R" / "E" Material thickness of 2 mm!
**** When installing in solid materials (no cavity behind), cable routing and clamping must be taken into account.



SHAPE SL

LUMINAIRES FOR OUTDOOR USE



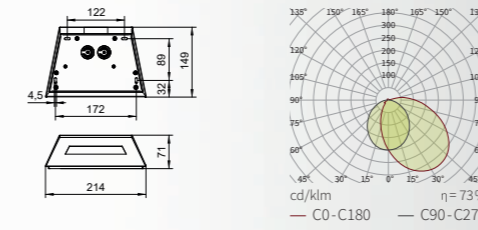
SHAPE safety luminaire
Wall installation
Item no. (illustration):
9058 09 0102 SHAPE SL PLC24, DB703

Lighting technology and dimensional drawings

Installation height [m]	→		→		↘		↘	
	1 lux		0.5 lux		1 lux		1 lux	
1.0	3.3	3.4	4.1	4.2	2.4	2.4	5.8	6.0
2.0	4.3	4.4	5.4	5.5	3.0	3.1	7.6	7.8
3.0	4.8	4.9	6.2	6.4	3.3	3.4	8.7	8.9
4.0	5.0	5.2	6.7	6.9	3.3	3.5	9.3	9.5
5.0	4.9	5.2	7.0	7.3	3.1	3.3	9.4	9.7
6.0	4.6	4.9	7.2	7.4	2.5	2.8	9.3	9.7

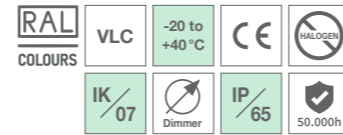
SHAPE SL, 3000 K/4000 K, maintenance factor 0.57

Dimensional drawings [mm]: Light distribution:



Technical data

Installation type:	Wall surface mounting
Housing:	V4A stainless steel, powder-coated, signal white RAL 9003 or dark grey DB 703
Protection class:	⚡ (230V), ⚡ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Light colour:	3000 K, 4000 K



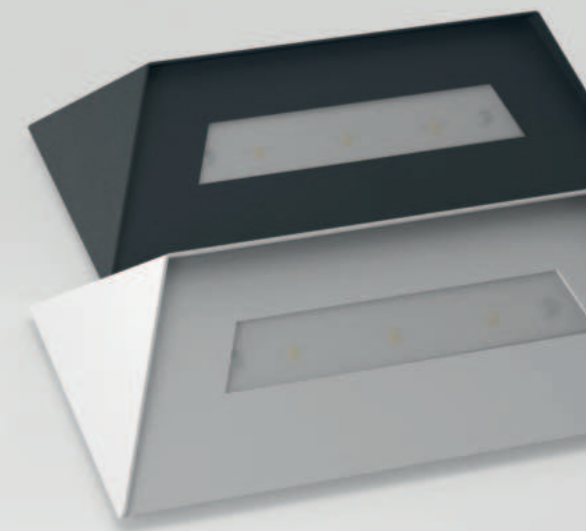
Safety lights

9058 0x 3001	Shape SL 3000 K*
9058 0x 0101	Shape SL 4000 K*
9058 0x 3002	Shape SL 3000 K DB703
9058 0x 0102	Shape SL 4000 K DB 703

Accessories

9058 00 0001	Shape SL Wall-mounting bracket*
9058 00 0002	Shape SL Wall-mounting bracket in DB 703

* Article is finished in standard colour signal white RAL 9003 and available in any other RAL colour.



NOTE: Dimmable version only possible with PLC24.

FLAP SL

LUMINAIRES FOR OUTDOOR USE



FLAP safety luminaire
Wall installation
Item no. (illustration):
9058 09 0123 FLAP SL 8W, RAL 9007 PLC24

Technical data

Installation type: Wall surface mounting
Housing: Aluminium powder-coated, signal white RAL 9003 or grey aluminium RAL 9007
Protection class: ⚡ (230V), ⬡ (PLC24)
Protection type: IP65
IK Impact resistance level: IK07
Temperature range: -20 °C to +40 °C (PLC24), -20 °C to +50 °C (230V)
Light colour: 3000K



Safety lights

9058 09 0113 FLAP SL 4W, RAL 9007 PLC24
9058 09 0123 FLAP SL 8W, RAL 9007 PLC24
9058 01 0103 FLAP SL, RAL 9007*
9058 01 0104 FLAP SL, RAL 9003*

Accessories

840 0 304 ADR20-ILS**

* 50,000h warranty excluded.

** The ADR20-ILS module must be installed at a maximum distance of 500m. To the luminaire can be fitted externally.

Lighting technology and dimensional drawings

Installation height [m]	→	←	↔
	1 lux	1 lux	1 lux
4.0	4.3	6.4	16.1
6.0	5.4	5.8	18.0
8.0	5.8	5.6	16.2
10.0	-	-	16.2

FLAP SL 4W PLC24, 3000K, maintenance factor 0.57

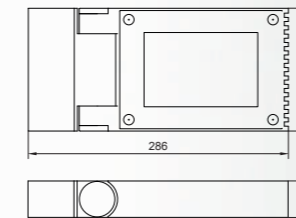
Installation height [m]	→	←	↔
	1 lux	1 lux	1 lux
4.0	4.7	8.1	18.7
6.0	6.3	9.1	23.8
8.0	7.5	8.0	25.5
10.0	8.2	8.0	22.5
12.0	8.0	7.3	22.5

FLAP SL 8W PLC24, 3000K, maintenance factor 0.57

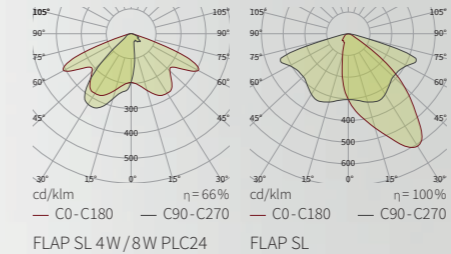
Installation height [m]	→	←	↔
	1 lux	1 lux	1 lux
4.0	5.7	8.5	21.0
6.0	7.7	8.2	24.5
8.0	8.9	10.4	24.0
10.0	9.9	8.4	23.5
12.0	10.5	7.5	22.0

FLAP SL, 3000K, maintenance factor 0.57

Dimensional drawings [mm]:



Light distribution:



NOTE:
Dimmable version only possible with PLC24.
For the PLC24 version there is a restricted temperature range of -20 °C to +40 °C.

POLLER E 1050

LUMINAIRES FOR OUTDOOR USE



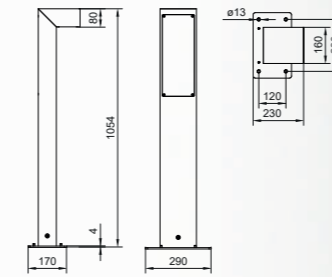
POLLER E 1050 safety luminaire
Floor mounting
Item no. (illustration):
9060 09 3101 POLLER E 1050 3000 K PLC24

Lighting technology and dimensional drawings

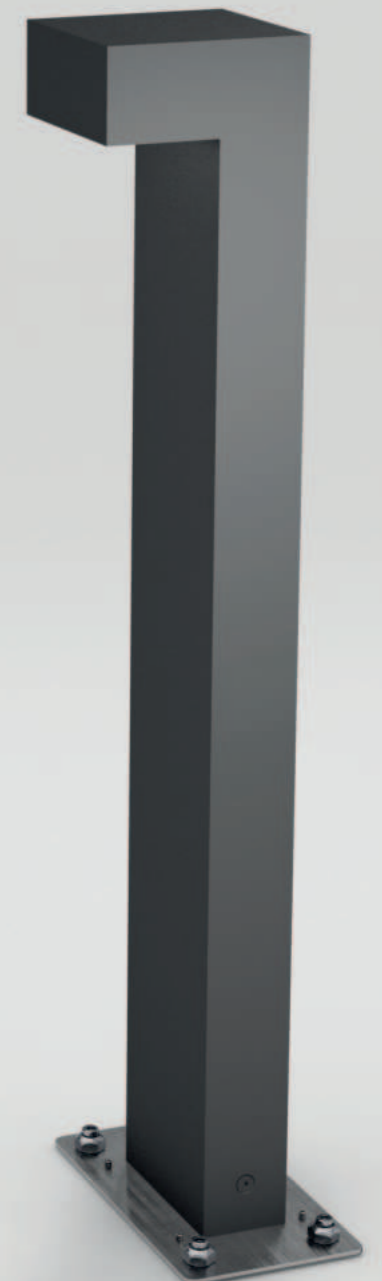
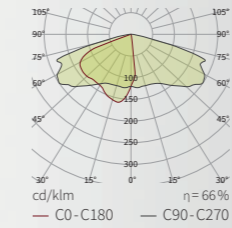
Installation height [m]	1 lux	0.5 lux	1 lux	1 lux
Floor mounting	2.5	2.7	4.6	10.3
-	-	-	-	-
-	-	-	-	-

POLLER E 1050, 3000K, maintenance factor 0.57

Dimensional drawings [mm]:

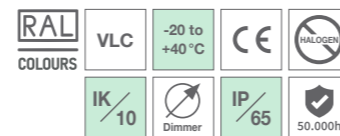


Light distribution:



Technical data

Installation type: Floor mounting
Housing: Aluminium powder-coated, dark grey DB 703, Special colours available on request
Protection class: \square (230V), \diamond (PLC24)
Protection type: IP65
IK Impact resistance level: IK10
Temperature range: -20°C to +40°C
Light colour: 3000K



Safety lights

9060 0x 3101 POLLER E 1050 3000K

Accessories

9060 00 0001 POLLER luminaire, earth spike V2A

NOTE: Dimmable version only possible with PLC24.

POLLER R 1200

LUMINAIRES FOR OUTDOOR USE



POLLER R 1200 safety luminaire
Floor mounting
Item no. (illustration):
9060 09 3211 POLLER 1200 T1 R 3000K PLC DB703

Technical data

Installation type:	Floor mounting
Housing:	Stainless steel V2A powder-coated, dark grey DB703, special colours available on request
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Light colour:	3000 K



Safety lights

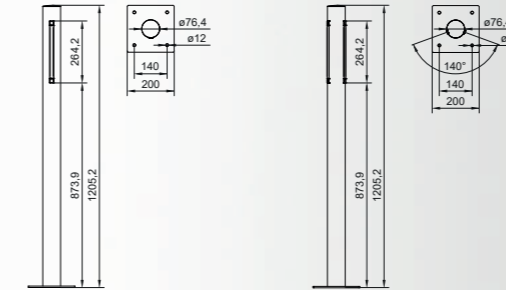
9060 0x 3211	POLLER 1200 T1 R 3000K DB703
9060 0x 3221	POLLER 1200 T2 R 3000K DB703

Lighting technology and dimensional drawings

Installation height [m]	↔	↔	↔	↔
	1 lux	0.5 lux	1 lux	1 lux
Floor mounting	3.8 1.8	4.7 2.4	1.9 3.0	4.7 7.3
-	-	-	-	-
-	-	-	-	-

POLLER 1200 T1 | POLLER 1200 T2, 3000K, maintenance factor 0.57

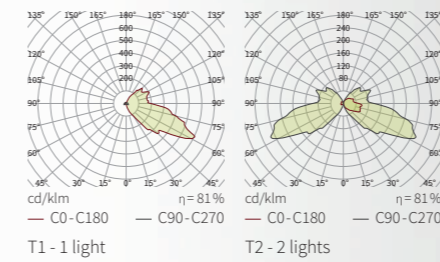
Dimensional drawings [mm]:



POLLER 1200 T1 - 1 light
Tube diameter: 76.4 mm

POLLER 1200 T2 - 2 lights
Tube diameter: 76.4 mm

Light distribution:



NOTE: Dimmable version only possible with PLC24.

STRING 2 SPOTS

LUMINAIRES FOR OUTDOOR USE

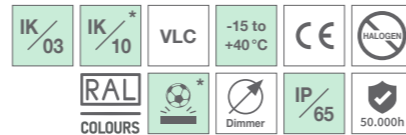


STRING 2 power spot
Ceiling recessed mounting

Item no. (illustration):
9069 09 8200 STRING 2 power spot AP DE IP65 4000 K

Technical data

Installation type:	Ceiling recessed mounting
Housing:	Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK03 / IK10*
Temperature range:	-15°C to +40°C
Light colours:	3000K, 4000K



Safety lights

9069 09 4301	STRING 2 eco spot AP2 DE IP65 3000K
9069 09 4300	STRING 2 eco spot AP2 DE IP65 4000K
9069 0x 6201	STRING 2 eco spot AP DE IP65 3000K
9069 0x 6200	STRING 2 eco spot AP DE IP65 4000K
9069 0x 6501	STRING 2 eco spot SL DE IP65 3000K
9069 0x 6500	STRING 2 eco spot SL DE IP65 4000K
9069 0x 6801	STRING 2 eco spot SL2 DE IP65 3000K
9069 0x 6800	STRING 2 eco spot SL2 DE IP65 4000K
9069 0x 8201	STRING 2 power spot AP DE IP65 3000K
9069 0x 8200	STRING 2 power spot AP DE IP65 4000K
9069 0x 8401	STRING 2 power spot TS DE IP65 3000K
9069 0x 8400	STRING 2 power spot TS DE IP65 4000K

Accessories

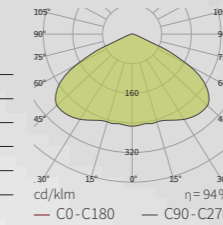
9069 00 0013	STRING 2 spot round protective cover**
9069 00 0014	STRING 2 spot rectangular protective cover**
9069 00 0012	STRING 2 spot frame, square

* When using the STRING 2 spot protective covers, the luminaire complies with the requirements according to D1 and W2 to DIN 18032-3:2023-12 and a stress classification of IK10.
 ** Other spacing values apply for combinations with the protective covers. Please contact your din contact person for this.
 *** Note beam pattern of the luminaire.
 **** Note beam pattern of the luminaire. Minimum installation height 2.5m above finished floor level.

Lighting technology and dimensional drawings

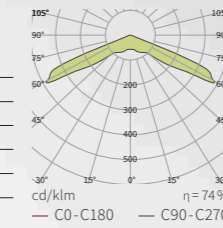
Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
2.5	2.7	2.8	7.3	7.5
3.0	2.5	2.7	7.6	7.8
3.5	2.2	2.3	7.7	8.0
4.0	1.4	1.5	7.6	7.8
4.5	-	-	7.1	7.4

STRING 2 eco spot AP DE, 3000K / 4000K, maintenance factor 0.57



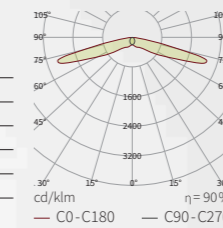
Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
2.5	4.9	4.9	11.6	11.6
3.0	1.9	1.9	10.0	10.0
3.5	-	-	8.6	8.6
4.0	-	-	6.4	6.4
4.5	-	-	2.5	2.5

STRING 2 eco spot AP2 DE, 3000K / 4000K, maintenance factor 0.57



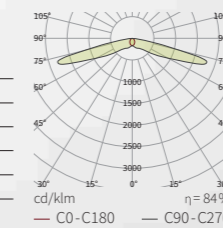
Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
2.5	6.5	6.9	17.5	17.7
3.0	5.2	5.6	18.4	18.8
3.5	-	2.7	16.8	17.7
4.0	-	-	13.2	14.2
4.5	-	-	8.9	10.3

STRING 2 eco spot SL DE, 3000K / 4000K***, maintenance factor 0.57



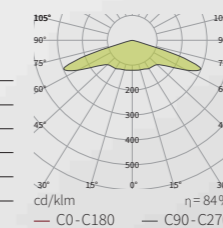
Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
2.5	8.3	8.5	19.3	19.6
3.0	8.8	9.0	21.7	22.1
3.5	8.1	9.0	23.6	24.0
4.0	6.9	7.5	24.3	25.2
4.5	3.7	4.3	23.6	25.1

STRING 2 eco spot SL2 DE, 3000K / 4000K****, maintenance factor 0.57



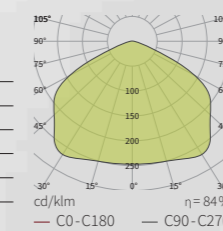
Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
2.5	4.4	4.6	12.8	13.0
3.0	3.5	3.8	13.2	13.7
3.5	3.1	3.3	12.6	13.3
4.0	2.8	3.0	10.8	11.6
4.5	2.1	2.5	9.5	10.2

STRING 2 power spot AP DE, 3000K / 4000K, maintenance factor 0.57

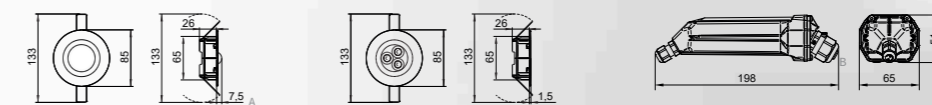


Installation height [m]	↔		↔	
	1 lux	1 lux	1 lux	1 lux
3.5	4.1	4.2	10.8	11.2
4.5	4.1	4.3	11.6	11.9
5.5	4.0	4.2	11.7	12.2
6.5	3.1	3.6	11.7	12.1
7.5	-	1.4	11.5	12.1

STRING 2 power spot TS DE, 3000K / 4000K, maintenance factor 0.57



Dimensional drawings [mm]:



eco spot AP / AP2 / SL / SL2 installation
 Drill hole: 68 mm
 Material thickness: 1-30 mm
 Recessed depth: See supply module
 (A) 2.5mm for SL / SL2

power spot AP / TS installation
 Drill hole: 68 mm
 Material thickness: 1-30 mm
 Recessed depth: See supply module

IP65 supply module
 Recessed depth: >200 mm
 (B) 2x ø 5 - 13 mm



NOTE: Dimmable version only possible with PLC24. Ensure that the supply modules are housed separately.

EyE PRO 3

LUMINAIRES FOR OUTDOOR USE



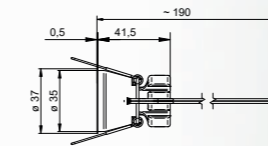
EyE PRO 3 TS safety luminaire
Ceiling recessed mounting
Item no. (illustration):
9070 09 1600 EyE Pro 3 TS IP65 4000 K PLC
Image rights: andreaswimmer.com

Lighting technology and dimensional drawings

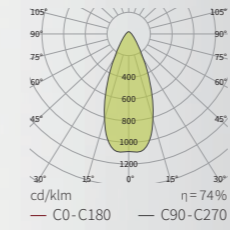
Installation height [m]	↖ ↗		↔	
	1 lux		1 lux	
3.5	2.7	2.8	6.7	6.9
4.5	3.0	3.1	7.5	7.6
5.5	3.3	3.4	8.1	8.4
6.5	3.5	3.6	8.7	9.0
7.5	3.7	3.8	9.3	9.5

EyE PRO 3 TS, 3000 K/4000 K, maintenance factor 0.57

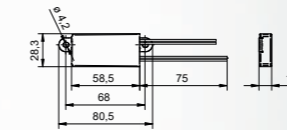
Dimensional drawings [mm]:



Light distribution:



EyE PRO 3 TS
Drill hole: 35 mm
Material thickness: 1 - 25 mm
Recessed depth: > 50 mm



PLC24 IP65 Electronics
Recessed depth: > 50 mm

Technical data

Installation type:	Ceiling recessed mounting
Housing:	Aluminium base body with PMMA panel
Protection class:	□ (230 V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK06
Temperature range:	-15 °C to +40 °C
Light colours:	3000 K, 4000 K



Safety light

9070 09 1700	EyE PRO 3 TS IP65 3000 K PLC
9070 09 1600	EyE PRO 3 TS IP65 4000 K PLC

Accessories

9070 00 0001	EyE Pro sheet metal punch 35 mm
9070 00 0002	EyE Pro hole saw 35 mm



NOTE: Ensure that the supply modules are housed separately.

CONCEPT 2

LUMINAIRES FOR OUTDOOR USE



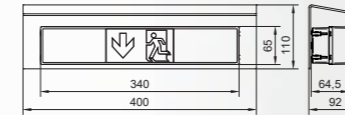
CONCEPT 2
Wall surface mounting
with canopy
Item no. (illustration):
9020 09 5005 CONCEPT 2 RZ1 PLC24
9020 00 0076 CONCEPT RD

Lighting technology and dimensional drawings

Installation height [m]	→		←	
	1 lux	0.5 lux	1 lux	1 lux
2.5	2.8	3.5	2.7	7.9
3.0	2.8	3.8	2.5	8.1
3.5	2.7	4.0	2.1	8.0
4.0	2.2	4.1	1.5	7.6
4.5	-	4.0	-	7.1

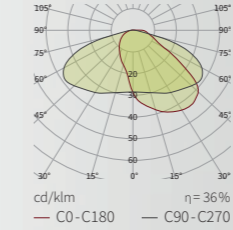
CONCEPT 2 RZ1 plus/duo, maintenance factor 0.57

Dimensional drawings [mm]:



CONCEPT 2 RZ1
Luminaire with canopy

Light distribution RZ1 plus/duo:



Technical data

Installation type:	Wall surface mounting
Housing:	Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Cover:	Polycarbonate, flame-retardant, opal, UV-stabilised
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK03/IK10**
Temperature range:	-15°C to +40°C



Escape sign lights

9020 0x 5005	CONCEPT 2 RZ1
9020 0x 5018	CONCEPT 2 RZ1 plus
9020 09 5019	CONCEPT 2 RZ1 duo

Accessories

9020 00 0082	CONCEPT RZ1 Picto Px one-sided
9020 00 0085	CONCEPT RZ1 Picto, ISO 7010, one-sided
9020 00 0074	CONCEPT-BSK1*
9020 00 0076	CONCEPT-RD
9020 00 0071	CONCEPT-DE/WE
9020 00 0072	CONCEPT-Concrete***
9020 00 0073	CONCEPT-UP***
9020 00 0080	CONCEPT-SA**/**

* If the CONCEPT ball impact guard is used, the luminaires meet the requirements of D1 und W2 nach DIN 18032-3:2023-12.

** When using the CONCEPT protective cover, the luminaire complies with requirements D1 and W2 in accordance with DIN 18032-3:2023:12 and a stress classification of IK10.

*** A CONCEPT-DE/WE ceiling installation kit is also required for this application.



NOTE:

Dimmable version only possible with PLC24.

D-marking per EN 60598-2-24 for PLC24 and ILS.

The CONCEPT-RD canopy is essential when mounting in uncovered outdoor areas.

The types RZ1 plus/duo include an additional safety light. With the RZ1 duo, the safety light and the escape sign can be switched or programmed separately.

CONCEPT 2

LUMINAIRES FOR OUTDOOR USE



CONCEPT 2
Parallel wall surface mounting
Item no. (illustration):
9020 09 5009 CONCEPT 2 AP3 PLC24
9020 00 0052 CONCEPT-WA-PP-G plastic
9020 00 0022 CONCEPT-S2-PR - recognition distance 20 m

Technical data

Installation type: Ceiling mounting, recessed ceiling mounting and wall mounting
Housing: Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Cover: Polycarbonate, flame-retardant, transparent, UV-stabilised light-directing (AS, SL)
Protection class: □ (230V), ◇ (PLC 24)
Protection type: IP65
IK Impact resistance level: IK03 / IK10 ****
Temperature range: -15°C to +40°C



Accessories

9020 00 0052 CONCEPT-WA-PP-G plastic
9020 00 0074 CONCEPT-BSK1**
9020 00 0075 CONCEPT-BSK2**
9020 00 0076 CONCEPT-RD
9020 00 001x CONCEPT-S1-Px - recognition distance 12m
9020 00 002x CONCEPT-S2-Px - recognition distance 20m
9020 00 003x CONCEPT-S3-Px - recognition distance 32m
9020 00 011x CONCEPT-S1-Px 4844 - recognition distance 12m
9020 00 012x CONCEPT-S2-Px 4844 - recognition distance 20m
9020 00 013x CONCEPT-S3-Px 4844 - recognition distance 32m
9020 00 0071 CONCEPT-DE/WE
9020 00 0072 CONCEPT-Concrete *****
9020 00 0073 CONCEPT-UP *****
9020 00 0080 CONCEPT-SA *****/*****

Panel article number logic

xxxx xx xxx1 Left arrow
xxxx xx xxx2 Right arrow
xxxx xx xxx3 Down arrow
xxxx xx xxx4 Left/right arrow (both sides)
xxxx xx xxx5 Special pictogram, parametrisable
xxxx xx xxx6 Special pictogram ISO7010

Safety lights

9020 09 5009 CONCEPT 2 AP3 PLC24
9020 0x 5011 CONCEPT 2 AP5
9020 09 5001 CONCEPT 2 SL3 PLC24
9020 0x 5003 CONCEPT 2 SL5
9020 09 5013 CONCEPT 2 TS3 PLC24
9020 0x 5015 CONCEPT 2 TS5
9020 09 5016 CONCEPT 2 AS3 PLC24
9020 0x 5017 CONCEPT 2 AS5

Variants with switch input

9020 09 5x09 CONCEPT 2 AP3 PLC (1) switch / (2) switch inv
9020 09 5x11 CONCEPT 2 AP5 PLC (1) switch / (2) switch inv
9020 09 5x16 CONCEPT 2 AS3 PLC (1) switch / (2) switch inv
9020 09 5x17 CONCEPT 2 AS5 PLC (1) switch / (2) switch inv
9020 09 5x01 CONCEPT 2 SL3 PLC (1) switch / (2) switch inv
9020 09 5x03 CONCEPT 2 SL5 PLC (1) switch / (2) switch inv
9020 09 5x13 CONCEPT 2 TS3 PLC (1) switch / (2) switch inv
9020 09 5x15 CONCEPT 2 TS5 PLC (1) switch / (2) switch inv

Lighting technology and dimensional drawings

Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	3.0 3.9	7.3 8.7	7.6 10.3	2.9 4.2
3.0	3.0 4.3	8.1 9.9	8.0 11.2	3.0 4.5
3.5	2.9 4.8	8.5 11.0	8.3 11.9	3.0 4.8
4.0	2.8 5.1	8.6 12.0	8.5 12.6	2.8 4.9
4.5	2.6 5.1	8.4 13.0	8.5 13.1	2.6 5.0

CONCEPT 2 AP3 | CONCEPT 2 AP5 without pictogram panel, maintenance factor 0.57

Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	1.6 2.1	4.0 4.8	11.5 14.8	4.8 6.0
3.0	1.6 2.2	4.4 5.4	12.6 15.7	5.0 6.6
3.5	1.7 2.4	4.6 5.8	13.5 16.9	5.4 7.1
4.0	1.6 2.5	4.7 6.3	13.9 18.1	5.6 7.5
4.5	1.5 2.5	4.9 6.7	14.6 19.3	5.3 7.6

CONCEPT 2 SL3 | CONCEPT 2 SL5 without pictogram panel, maintenance factor 0.57

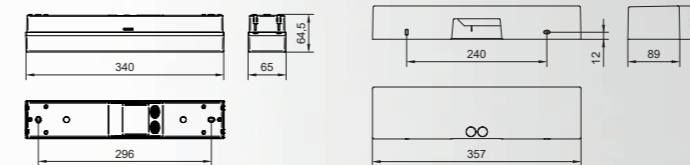
Installation height [m]	1 lux	1 lux	1 lux	1 lux
6.0	2.1 3.8	6.8 9.7	11.6 17.7	3.7 6.8
7.0	1.4 4.0	6.7 10.4	11.5 18.5	3.1 6.9
8.0	0.3 4.1	6.1 10.8	10.9 19.1	1.8 6.9
9.0	- 3.9	5.4 11.0	9.7 19.6	- 6.7
10.0	- 3.6	3.7 11.5	6.6 19.7	- 6.4

CONCEPT 2 TS3 | CONCEPT 2 TS5 without pictogram panel, maintenance factor 0.57

Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	2.0 3.1	5.7 7.4	8.6 12.5	3.6 5.2
3.0	1.9 3.4	5.8 8.2	9.5 13.6	3.3 5.1
3.5	1.6 3.4	5.8 9.0	9.7 14.4	3.1 5.5
4.0	1.2 3.4	5.5 9.5	9.2 14.6	1.3 6.0
4.5	- 3.4	5.2 9.8	8.7 15.0	- 6.3

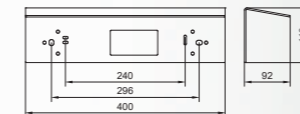
CONCEPT 2 AS3 | CONCEPT 2 AS5 without pictogram panel, maintenance factor 0.57

Dimensional drawings [mm]:

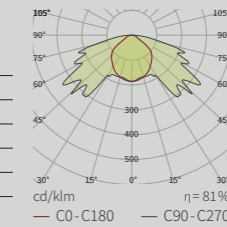
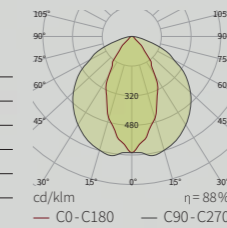
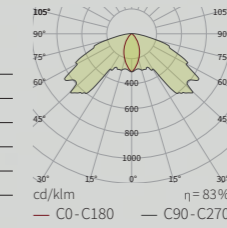
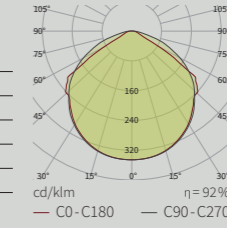


CONCEPT 2 AP/SL/AS/TS Lights

CONCEPT-WA-PP-G Plastic wall bracket



CONCEPT 2 RD Canopy



* Compliance with standard DIN 4844 with CONCEPT 2 AP5 + panel S1/S2/S3 DIN 4844 and CONCEPT 2 AS5 + panel S1/S2 DIN 4844.

** If the CONCEPT ball impact guard is used, the luminaires meet the requirements of D1 and W2 according to DIN 18032-3:2023-12.

*** Can be combined with pictogram panels with these recognition distances.

**** When using the CONCEPT protective cover, the luminaire fulfils the requirements D1 and W2 in accordance with DIN 18032-3:2023-12 and a stress classification of IK10.

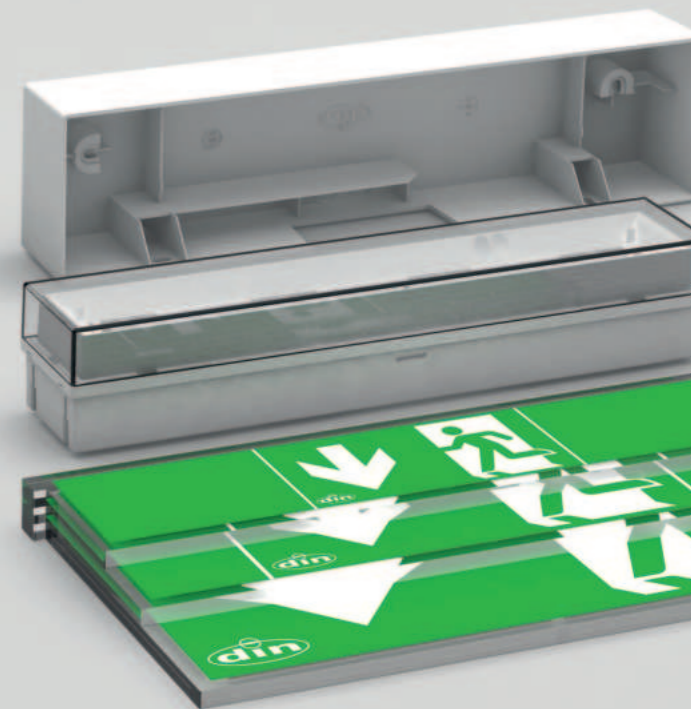
***** A CONCEPT-DE/WE ceiling installation kit is also required for this application.

NOTE:

Dimmable version only possible with PLC24.

D-marking per EN 60598-2-24 for PLC24 and ILS.

The CONCEPT-RD canopy or the CONCEPT-WA-PP-G plastic wall bracket is essential when mounting in uncovered outdoor areas.



CONCEPT 2

LUMINAIRES FOR OUTDOOR USE



CONCEPT 2 WAP with ball impact guard
Parallel wall surface mounting
Item no. (illustration):
9020 09 5309 CONCEPT 2 WAP AP3 PLC24
9020 00 1023 WAP-S2-PU - EK 20 m
9020 00 0075 CONCEPT-BSK2

Technical data

Installation type: WAP Wall-mounted and ceiling-mounted with adjustable lighting technology
Housing: Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Cover: Polycarbonate, flame-retardant, transparent, UV-stabilised, light-directing (AS, SL)
Protection class: □ (230V), ◇ (PLC 24)
Protection type: IP65
IK Impact resistance level: IK03 / IK10 ****
Temperature range: -15°C to +40°C



Accessories

9020 00 0076	CONCEPT-RD
9020 00 0074	CONCEPT-BSK1**
9020 00 0075	CONCEPT-BSK2**
9020 00 101x	CONCEPT WAP-S1-Px - recognition distance 12m
9020 00 102x	CONCEPT WAP-S2-Px - recognition distance 20m
9020 00 103x	CONCEPT WAP-S3-Px - recognition distance 32m
9020 00 111x	CONCEPT WAP-S1-Px 4844 - recognition distance 12m
9020 00 112x	CONCEPT WAP-S2-Px 4844 - recognition distance 20m
9020 00 113x	CONCEPT WAP-S3-Px 4844 - recognition distance 32m
9020 00 0071	CONCEPT-DE /WE
9020 00 0072	CONCEPT-Concrete *****
9020 00 0073	CONCEPT-UP *****
9020 00 0080	CONCEPT-SA **** /*****

Panel article number logic

xxxx xx xxx1	Left arrow
xxxx xx xxx2	Right arrow
xxxx xx xxx3	Down arrow
xxxx xx xxx4	Left / right arrow (both sides)
xxxx xx xxx5	Special pictogram, parametrisable
xxxx xx xxx6	Special pictogram ISO7010

Safety lights

9020 09 5309	CONCEPT 2 WAP AP3 PLC24
9020 0x 5311	CONCEPT 2 WAP AP5
9020 09 5301	CONCEPT 2 WAP SL3 PLC24
9020 0x 5303	CONCEPT 2 WAP SL5

Variants with switch input

9020 09 5x09	CONCEPT 2 WAP AP3 PLC (4) switch / (5) switch inv
9020 09 5x11	CONCEPT 2 WAP AP5 PLC (4) switch / (5) switch inv
9020 09 5x01	CONCEPT 2 WAP SL3 PLC (4) switch / (5) switch inv
9020 09 5x03	CONCEPT 2 WAP SL5 PLC (4) switch / (5) switch inv

Lighting technology and dimensional drawings

Installation height [m]	← →		↕		↔ ↔	
	1 lux	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux
2.5	3.1 4.1	3.7 5.0	2.9 4.2	3.5 4.8	7.6 10.0	9.1 12.4
3.0	3.3 4.5	4.1 5.4	2.9 4.5	3.5 4.8	7.9 10.8	9.5 12.8
3.5	3.4 4.9	4.5 5.8	2.8 4.8	3.4 4.7	8.1 11.6	9.7 13.1
4.0	3.3 5.3	4.7 6.2	2.7 4.9	3.3 4.6	8.2 12.4	9.8 13.3
4.5	3.1 5.6	4.8 6.6	2.5 5.0	3.1 4.4	8.3 13.1	9.9 13.5

90° - CONCEPT 2 WAP AP3 | CONCEPT 2 WAP AP5 without pictogram panel, maintenance factor 0.57

Installation height [m]	← →		↕		↔ ↔	
	1 lux	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux
2.5	3.5 5.2	4.6 6.2	2.9 4.2	3.5 4.8	7.6 10.0	9.1 12.4
3.0	3.6 5.7	4.9 6.9	2.8 4.5	3.4 4.7	7.8 10.8	9.3 12.6
3.5	3.5 6.0	5.0 7.4	2.8 4.7	3.3 4.6	7.9 11.6	9.4 12.8
4.0	3.4 6.1	5.1 7.8	2.6 4.8	3.2 4.5	8.1 12.3	9.5 13.0
4.5	3.2 6.2	5.1 8.2	2.4 4.9	3.1 4.4	8.1 12.9	9.5 13.1

75° - CONCEPT 2 WAP AP3 | CONCEPT 2 WAP AP5 without pictogram panel, maintenance factor 0.57

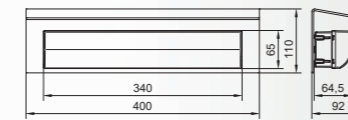
Installation height [m]	← →		↕		↔ ↔	
	1 lux	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux
2.5	1.0 2.9	2.2 4.0	4.1 5.6	4.8 6.5	10.3 13.0	12.4 16.1
3.0	- 2.8	2.0 4.1	- 6.3	7.0 9.5	6.6 14.5	8.1 18.8
3.5	- 2.6	1.5 4.1	- 6.9	7.7 10.5	6.3 16.1	7.8 20.4
4.0	- 2.2	- 4.1	- 7.4	8.5 11.5	- 17.5	- 22.6
4.5	- 1.3	- 3.9	- 7.8	9.3 12.5	- 18.8	- 24.0

90° - CONCEPT 2 WAP SL3 | CONCEPT 2 WAP SL5 without pictogram panel, maintenance factor 0.57

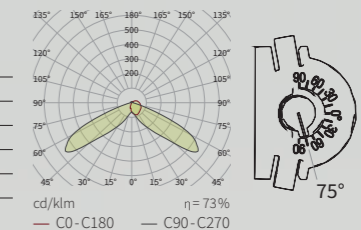
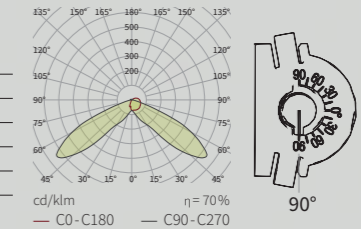
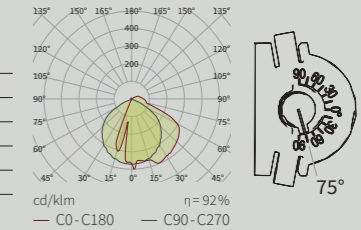
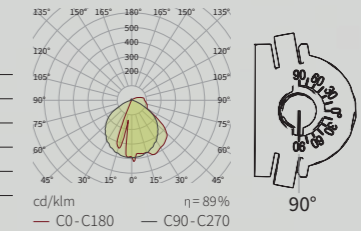
Installation height [m]	← →		↕		↔ ↔	
	1 lux	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux
2.5	1.0 2.7	2.1 3.9	4.5 5.9	5.4 7.3	10.8 13.3	13.3 17.4
3.0	- 2.7	1.9 3.9	- 6.5	7.6 10.1	6.9 14.9	8.6 19.7
3.5	- 2.5	1.5 3.9	- 7.0	8.3 11.0	6.5 16.4	8.3 21.1
4.0	- 2.2	- 3.8	- 7.5	9.1 12.0	- 17.7	- 22.9
4.5	- 0.3	- 3.7	- 7.9	9.9 13.0	- 18.9	- 24.3

75° - CONCEPT 2 WAP SL3 | CONCEPT 2 WAP SL5 without pictogram panel, maintenance factor 0.57

Dimensional drawings [mm]:



CONCEPT 2 WAP AP/SL
Luminaire with canopy



* Compliance with standard DIN 4844 with a light alignment of 90°, in combination with AP5 lights and DIN 4844 pictogram panels.

** If the CONCEPT ball impact guard is used, the luminaires meet the requirements of D1 and W2 according to DIN 18032-3:2023-12.

*** Can be combined with pictogram panels with these recognition distances.

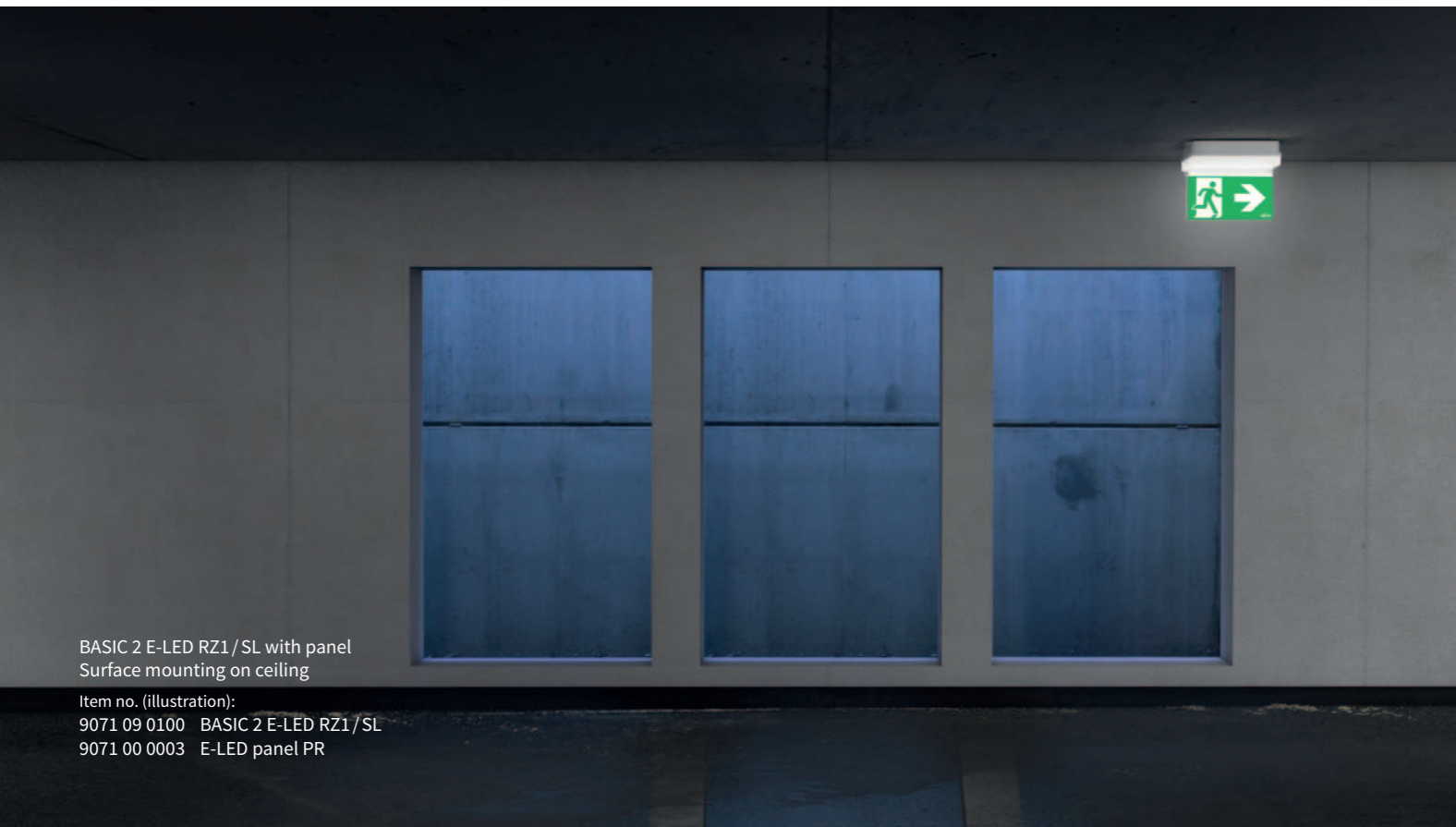
**** When using the CONCEPT protective cover, the luminaire complies with requirements D1 and W2 in accordance with DIN 18032-3:2023-12 and a stress classification of IK10.

***** A CONCEPT-DE/WE ceiling installation kit is also required for this application.

NOTE:
Dimmable version only possible with PLC24.
The CONCEPT-RD canopy is essential when mounting in uncovered outdoor areas.

BASIC 2

LUMINAIRES FOR OUTDOOR USE

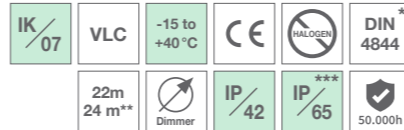


BASIC 2 E-LED RZ1/SL with panel
Surface mounting on ceiling

Item no. (illustration):
9071 09 0100 BASIC 2 E-LED RZ1/SL
9071 00 0003 E-LED panel PR

Technical data

Installation type:	Wall and ceiling mounting
Housing:	Polyester, flame retardant, signal white RAL 9003
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP42/IP65***
IK Impact resistance level:	IK07
Temperature range:	-15°C to +40°C



Illuminated escape route signs/safety lighting

9071 0x 0100	BASIC 2 E-LED RZ1/SL
9071 09 0110	BASIC 2 E-LED RZ1/SL 115mA
9071 0x 0200	BASIC 2 E-LED RZ2
9071 09 0210	BASIC 2 E-LED RZ2 115mA

Accessories

9071 00 0001	E-LED RZ1 RD canopy
9071 00 0002	E-LED RZ2 RD canopy
9071 00 0003	E-LED panel PL/PR/PU/BL**
9071 00 0004	E-LED panel PX**
9071 00 0006	E-LED RZ2 Picto insert PX
9071 00 0007	E-LED RZ1 Picto insert PX
9071 00 0013	E-LED IP65 Set***

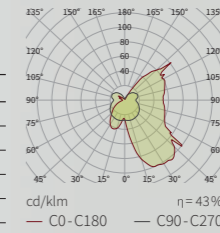
* Compliance with standard DIN 4844 with BASIC 2 E-LED RZ1/SL (without panel), BASIC 2 E-LED RZ1/SL 115mA (without panel) and BASIC 2 E-LED RZ2.

** 24m recognition distance in combination with E-LED panels.

*** IP65 protection can be implemented for this luminaire with the BASIC 2 E-LED IP65 Set.

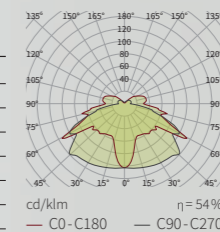
Lighting technology and dimensional drawings

Installation height [m]	1 lux		0.5 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	-	3.1	2.4	3.7	0.6	2.3	3.6	6.5
3.0	-	3.0	-	4.0	-	2.2	2.7	6.4
3.5	-	-	-	4.5	-	1.9	1.2	6.3
4.0	-	-	-	4.2	-	1.4	-	6.0
4.5	-	-	-	4.3	-	-	-	5.4



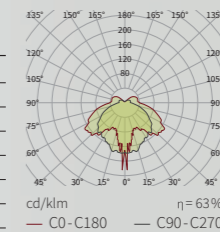
BASIC 2 E-LED RZ1 as wall-mounted escape sign luminaire, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.0	0.7	2.5	3.9	8.2	5.3	8.4	1.8	3.0
2.5	0.5	2.4	3.1	8.2	5.5	8.8	1.5	3.3
3.0	0.1	2.0	1.9	7.2	5.1	8.8	0.5	3.4
3.5	-	1.3	1.5	6.7	4.0	9.3	-	3.2
4.0	-	1.0	0.7	6.2	2.2	9.6	-	2.9
4.5	-	0.8	-	5.1	-	9.6	-	2.4



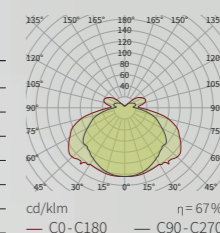
BASIC 2 E-LED RZ2 as ceiling-mounted escape sign luminaire, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.0	1.6	3.7	6.4	9.4	6.1	8.7	2.4	3.5
2.5	1.9	4.0	5.9	10.1	6.6	9.6	2.3	3.8
3.0	1.8	3.6	5.0	10.7	6.6	10.3	2.5	4.0
3.5	1.1	3.0	5.4	11.1	6.6	10.7	2.1	4.2
4.0	0.7	3.2	4.8	10.4	7.0	11.2	1.8	4.0
4.5	0.7	3.4	4.4	9.4	6.5	11.6	1.7	4.1



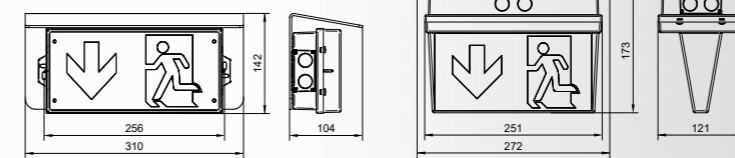
BASIC 2 E-LED SL as safety light with escape route sign/panel, ceiling mounting, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.0	2.0	3.4	5.8	8.9	5.1	7.6	1.6	3.0
2.5	1.6	3.6	6.0	9.5	5.0	8.2	1.5	3.1
3.0	1.2	3.6	5.6	9.9	4.7	8.7	1.0	3.1
3.5	-	3.6	4.9	10.2	4.3	9.0	-	3.0
4.0	-	3.3	3.7	10.4	3.1	9.0	-	2.8
4.5	-	2.8	1.9	10.4	1.7	8.7	-	2.5



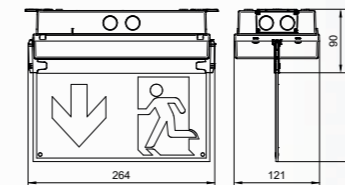
BASIC 2 E-LED SL as safety light with film, ceiling-mounted, maintenance factor 0.57

Dimensional drawings [mm]:

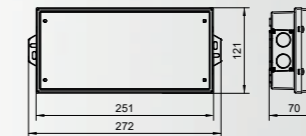


BASIC 2 E-LED RZ1
incl. IP65 mounting kit and canopy***

BASIC 2 E-LED RZ2
incl. IP65 mounting kit*** **Note:** With the BASIC 2 E-LED RZ2, the rain canopy can only be used in the 90° mounting variant.



BASIC 2 E-LED SL
incl. IP65 mounting set and escape sign/panel***



BASIC 2 E-LED SL
incl. IP65 mounting kit***

NOTE:
Dimmable version only possible with PLC24. The BASIC E-LED RD canopy is essential when mounting in uncovered outdoor areas.

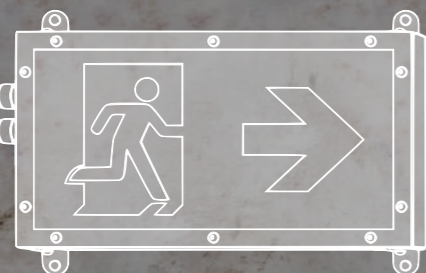


SAFETY LIGHTING FOR DIFFICULT ENVIRONMENTAL CONDITIONS

Luminaire for difficult ambient conditions require special properties: Moisture protection, dust protection and mechanical strength. Optimum lighting technology, ease of installation and our 50,000 h / 5.7-year din full guarantee are also standard with these luminaire series.



More about our solutions for increased requirements.



DID YOU KNOW?

Point 4.4 of EN 1838 requires 10% of the required general lighting – but at least 15 lux for workplaces **with special hazards**. We also have a suitable solution for these areas. Contact your din contact person for more detailed information.

Do you still have normative questions?



Regulations at the cutting edge
Find current basics, practical examples and FAQs at [vorschriften.din-notlicht.com](https://www.vorschriften.din-notlicht.com)

INDUSTRY X32

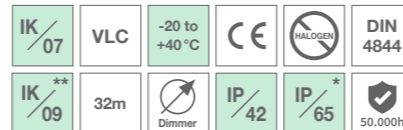
LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



INDUSTRY X32 RZ2
90° wall mounting with IP65 set
Item no. (illustration):
9075 09 0200 INDUSTRY X32 RZ2 PLC
9075 00 0201 INDUSTRY Ex X32/X32 RZ2, Picto PL/PR
9075 00 0003 INDUSTRY X32 IP65 Set

Technical data

Installation type:	Wall mounting (RZ1), 90° wall mounting and ceiling mounting (RZ2)
Housing:	Polycarbonate, flame-retardant, UV-stabilised, signal white RAL 9003
Cover:	Polycarbonate, flame-retardant, UV-stabilised, transparent, PMMA pictograms
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP42/IP65*
IK Impact resistance level:	IK07/IK09*
Temperature range:	-20°C to +40°C



Illuminated escape route signs / safety lighting

9075 0x 010x	INDUSTRY X32 RZ1
9075 0x 020x	INDUSTRY X32 RZ2

Accessories

9075 00 0001	INDUSTRY Ex X32/X32 RD1
9075 00 0002	INDUSTRY Ex X32/X32 RD2
9075 00 0003	INDUSTRY X32 IP65 Set*
9075 00 0004	INDUSTRY X32 IK09 Set**
9075 00 0006	INDUSTRY X32 BE
9075 00 0007	INDUSTRY X32 string
9020 00 0075	INDUSTRY X32 Ball impact guard BSK2
9075 00 010x	INDUSTRY Ex X32/X32 RZ1, Picto Px
9075 00 020x	INDUSTRY Ex X32/X32 RZ2, Picto Px/Px

* IP65 protection can be implemented for this luminaire with the INDUSTRY X32 IP65 Set.
** The IK impact resistance rating IK09 can be realised for this luminaire with the INDUSTRY X32 IK09 set.

Panel article number logic

Variant Px (single-side)	
xxxx xx xxx1	Left arrow
xxxx xx xxx2	Right arrow
xxxx xx xxx3	Down arrow
xxxx xx xxx5	Special pictogram, parametrisable
xxxx xx xxx6	Special pictogram ISO7010
Variant Px/Px (both sides)	
xxxx xx xxx1	Left/right arrow
xxxx xx xxx2	Down arrow/blank
xxxx xx xxx3	Left/right arrow 90°
xxxx xx xxx4	Down arrow/blank 90°
xxxx xx xxx5	Special pictogram, parametrisable
xxxx xx xxx6	Special pictogram ISO7010

Lighting technology and dimensional drawings

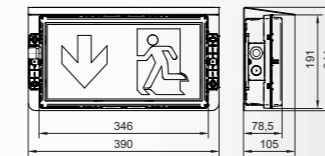
Installation height [m]	1 lux		0.5 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	1.1	2.1	1.7	2.9	0.6	2.3	3.7	6.4
3.0	0.9	2.1	1.7	3.0	-	2.5	3.8	7.0
3.5	0.7	2.0	1.6	2.9	-	2.5	3.7	7.5
4.0	0.5	1.9	1.4	2.9	-	2.5	2.9	7.8
4.5	-	1.7	1.3	2.9	-	2.4	2.1	8.1

INDUSTRY X32 RZ1 as wall-mounted, escape sign luminaire, maintenance factor 0.57

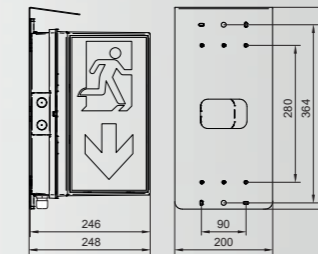
Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	1.6	3.0	4.9	8.0	7.9	11.0	3.0	4.5
3.5	0.9	2.9	4.6	8.4	8.6	12.7	3.0	5.0
4.5	0.8	2.8	3.6	8.4	8.7	13.9	2.7	5.3
5.5	0.6	2.6	2.1	8.0	8.3	14.6	1.8	5.3
6.5	-	1.3	2.1	7.9	7.5	15.1	-	5.2

INDUSTRY X32 RZ2 as ceiling-mounted, escape sign luminaire, maintenance factor 0.57

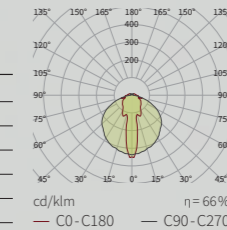
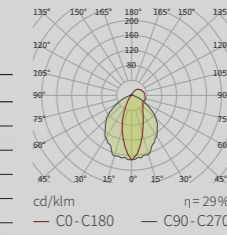
Dimensional drawings [mm]:



INDUSTRY X32 RZ1
incl. IP65 mounting kit and canopy*



INDUSTRY X32 RZ2
incl. IP65 mounting kit and canopy*
Note: With the INDUSTRY X32 RZ2, the rain canopy can only be used in the 90° mounting variant.



NOTE:
Dimmable version only possible with PLC24.
The associated canopy item is essential when mounting in uncovered outdoor areas.

INDUSTRY X32

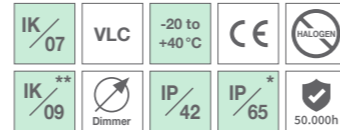
LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



INDUSTRY X32 STS10
Ceiling surface mounting with IP65 set
Item no. (illustration):
9075 09 0620 INDUSTRY X32 STS10 PLC
9075 00 0003 INDUSTRY X32 IP65 Set

Technical data

Installation type:	Ceiling mounting
Housing:	Polycarbonate, flame-retardant, UV-stabilised, signal white RAL 9003
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP42/IP65*
IK Impact resistance level:	IK07/IK09**
Temperature range:	-20°C to +40°C



Safety lights

9075 0x 0310	INDUSTRY X32 AP3
9075 0x 0300	INDUSTRY X32 AP5
9075 0x 0320	INDUSTRY X32 AP10
9075 0x 0410	INDUSTRY X32 SL3
9075 0x 0400	INDUSTRY X32 SL5
9075 0x 0420	INDUSTRY X32 SL10
9075 0x 0520	INDUSTRY X32 TS10
9075 0x 0620	INDUSTRY X32 STS10

Accessories

9075 00 0003	INDUSTRY X32 IP65 Set*
9075 00 0004	INDUSTRY X32 IK09 Set
9075 00 0006	INDUSTRY X32 BE
9075 00 0007	INDUSTRY X32 string
9020 00 0075	INDUSTRY X32 Ball impact guard BSK2

* IP65 protection can be implemented for this luminaire with the INDUSTRY X32 IP65 Set.
** The IK impact resistance rating IK09 can be realised for this luminaire with the INDUSTRY X32 IK09 set.

Lighting technology and dimensional drawings

Installation height [m]	1 lux			1 lux			1 lux			1 lux			
	AP3, AP5	AP10		AP3	AP5	AP10	AP3	AP5	AP10	AP3	AP5	AP10	
mA	115	350	350	115	350	350	115	350	350	115	350	350	
2.5	7.5	3.0	4.2	7.4	7.7	10.3	20.1	7.7	10.5	19.6	3.0	4.3	7.3
3.5	8.5	3.1	5.0	7.3	8.6	11.8	20.5	8.5	12.2	20.3	3.1	4.9	7.3
4.5	9.5	2.8	5.2	7.1	8.8	13.6	20.7	8.7	13.4	20.7	2.8	5.2	7.1
5.5	10.5	2.0	5.3	6.7	8.5	14.4	20.9	8.4	14.2	20.8	2.0	5.3	6.7
6.5	11.5	-	5.1	6.1	7.7	14.8	20.8	7.7	14.7	20.7	-	5.1	6.1

INDUSTRY X32 AP as ceiling-mounted, safety light, maintenance factor 0.57

Installation height [m]	1 lux			1 lux			1 lux			1 lux			
	SL3, SL5	SL10		SL3	SL5	SL10	SL3	SL5	SL10	SL3	SL5	SL10	
mA	115	350	350	115	350	350	115	350	350	115	350	350	
2.5	7.5	6.3	7.8	14.0	14.8	17.2	40.1	5.0	6.6	13.1	2.0	2.7	4.9
3.5	8.5	5.9	9.7	14.1	17.2	22.0	41.2	5.7	7.7	13.6	2.0	3.2	4.7
4.5	9.5	-	10.8	12.1	14.3	26.1	42.1	5.1	8.8	13.9	-	3.5	3.9
5.5	10.5	-	10.0	-	9.4	28.9	35.2	3.2	9.5	13.5	-	3.5	-
6.5	11.5	-	9.7	-	-	29.9	30.5	-	9.9	10.0	-	3.1	-

INDUSTRY X32 SL as ceiling-mounted, safety light, maintenance factor 0.57

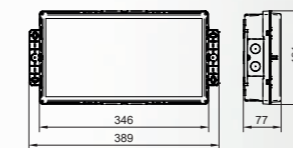
Installation height [m]	1 lux		1 lux	
	TS10		TS10	
mA	350	350	350	350
12.5	13.2	33.6	7.2	3.1
16.5	14.6	36.4	8.5	3.3
20.5	14.9	39.5	9.2	3.1
24.5	12.4	41.7	9.5	1.9
28.5	-	31.1	7.3	-

INDUSTRY X32 TS as ceiling-mounted, safety light, maintenance factor 0.57

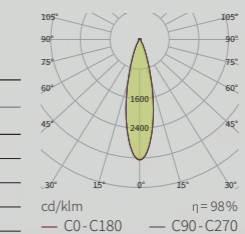
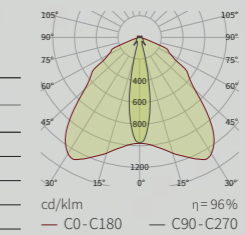
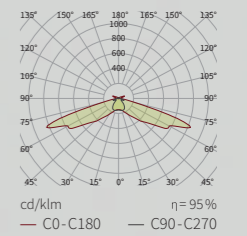
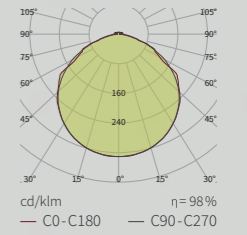
Installation height [m]	1 lux		1 lux	
	STS10		STS10	
mA	350	350	350	350
20.5	7.0	17.8	17.8	7.0
24.5	7.3	19.0	19.0	7.3
28.5	7.3	19.9	19.8	7.3
32.5	7.1	20.5	20.5	7.0
36.5	6.4	20.8	20.7	6.3

INDUSTRY X32 STS as ceiling-mounted, safety light, maintenance factor 0.57

Dimensional drawings [mm]:



INDUSTRY X32 AP/SL/TS/STS
incl. IP65 mounting kit*



INDUSTRY X32 RZ1 FSU

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



FSU INDUSTRY X32 RZ1 with changeable direction indication
Wall mounting, 3 pcs. with IP65 set
Item no. (illustration):
9075 19 1120 INDUSTRY X32 RZ1 Laser Picto PLC FSU
9075 00 0003 INDUSTRY X32 IP65 Set

Technical data

Installation type:	Wall mounting
Housing:	Polycarbonate, flame-retardant, UV-stabilised, signal white RAL 9003
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Panel:	PC/PMMA with internal lens light control
Protection class:	◇ (PLC24)
Protection type:	IP42/IP65*
IK Impact resistance level:	IK07/IK09**
Temperature range:	-20°C to +40°C

IK/07	IK/**/09	VLC	-20 to +40 °C	CE	HALOGEN
*** 20m	**** 30m	IP/42	IP/65*	50.000h	

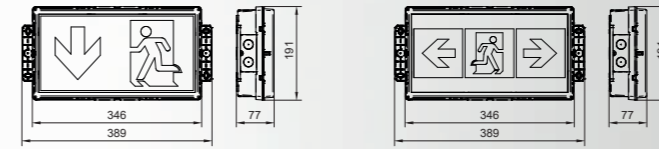
Accessories

9075 00 0001	INDUSTRY Ex X32/X32 RD1
9075 00 0003	INDUSTRY X32 IP65 Set*
9075 00 0004	INDUSTRY X32 IK09 Set**
9075 00 0006	INDUSTRY X32 BE
9075 00 0007	INDUSTRY X32 string
9020 00 0075	INDUSTRY X32 Ball impact guard BSK2

* IP65 protection can be implemented for this luminaire with the INDUSTRY X32 IP65 Set.
** The IK impact resistance rating IK09 can be realised for this luminaire with the INDUSTRY X32 IK09 set.
*** 20m recognition distance with all 3-piece PLC FSU escape sign luminaires
**** 30m recognition distance with Laser Picto and X-Picto PLC FSU escape sign luminaires

Dimensioned drawings and design variants

Dimensional drawings [mm]:



INDUSTRY X32 RZ1 Laser Picto/X-Picto
incl. IP65 mounting kit*
Temporarily visible escape sign
luminaires, with blocking function

INDUSTRY X32 RZ1 3 pcs. Laser Picto/X-Picto
incl. IP65 mounting kit*
Temporarily visible escape sign luminaires, with blocking
function, 3-piece, changeover function

Temporarily visible escape sign luminaires

9075 19 1120 INDUSTRY X32 RZ1 Laser Picto PLC FSU****

Luminaire states:



Escape sign luminaires with blocking function

9075 19 1110 INDUSTRY X32 RZ1 X-Picto PLC FSU****

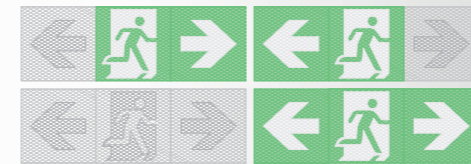
Luminaire states:



Temporarily visible escape sign luminaires, 3-piece, changeover function

9075 19 1150 INDUSTRY X32 RZ1 L-P 3 pcs. PLC FSU***

Luminaire states:



Escape sign luminaires with blocking function, 3-piece, changeover function

9075 19 1140 INDUSTRY X32 RZ1 X-Picto 3 pcs. PLC FSU***

Luminaire states:



NOTE:
The associated canopy item is essential when mounting in uncovered outdoor areas.



INDUSTRY X32 RZ2 FSU

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



FSU INDUSTRY X32 RZ2 with changeable direction indication
Ceiling mounting, 3 pcs. with IP65 set
Item no. (illustration):
9075 19 1241 INDUSTRY X32 RZ2-1 X-Picto 3 pcs. PLC FSU
9075 00 0003 INDUSTRY X32 IP65 Set

Technical data

Installation type:	90° wall mounting and ceiling mounting
Housing:	Polycarbonate, flame-retardant, UV-stabilised, signal white RAL 9003
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Panel:	PC/PMMA with internal lens light control
Protection class:	◆ (PLC24)
Protection type:	IP42 / IP65*
IK Impact resistance level:	IK07 / IK09**
Temperature range:	-20°C to +40°C

IK/07	IK/**09	VLC	-20 to +40 °C	CE	HALOGEN
*** 20m	**** 30m	IP/42	IP/65	50.000h	

Accessories

9075 00 0002	INDUSTRY Ex/X32 RD2
9075 00 0003	INDUSTRY X32 IP65 Set*
9075000004	INDUSTRY X32 IK09 Set**
9075 00 0006	INDUSTRY X32 BE
9075 00 0007	INDUSTRY X32 string

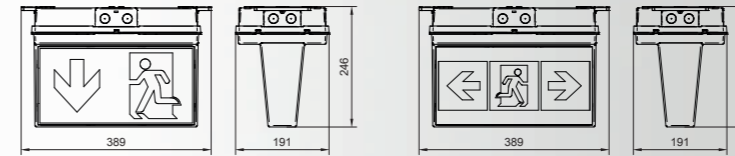
Light item number logic

xxxx xx xxxx	1 Single-side
xxxx xx xxxx	2 Dual-side

* IP65 protection can be implemented for this luminaire with the INDUSTRY X32 IP65 Set.
** The IK impact resistance rating IK09 can be realised for this luminaire with the INDUSTRY X32 IK09 set.
*** 20 m recognition distance with all 3-piece PLC FSU escape sign luminaires
**** 30 m recognition distance with Laser Picto and X-Picto PLC FSU escape sign luminaires

Dimensioned drawings and design variants

Dimensional drawings [mm]:



INDUSTRY X32 RZ2 Laser Picto / X-Picto
incl. IP65 mounting kit*
Temporarily visible escape sign luminaires,
with blocking function

INDUSTRY X32 RZ2 3 pcs. Laser Picto / X-Picto
incl. IP65 mounting kit*
Temporarily visible escape sign luminaires, with
blocking function, 3-piece, changeover function

Temporarily visible escape sign luminaires

9075 19 122x INDUSTRY X32 RZ2-x Laser Picto PLC FSU****

Luminaire states:



Escape sign luminaires with blocking function

9075 19 121x INDUSTRY X32 RZ2-x X-Picto PLC FSU****

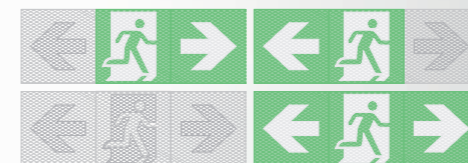
Luminaire states:



Temporarily visible escape sign luminaires, 3-piece, changeover function

9075 19 125x INDUSTRY X32 RZ2-x L-Picto 3 pcs. PLC FSU***

Luminaire states:



Escape sign luminaires with blocking function, 3-piece, changeover function

9075 19 124x INDUSTRY X32 RZ2-x X-Picto 3 pcs. PLC FSU***

Luminaire states:



NOTE:
The associated canopy item is essential when mounting in uncovered outdoor areas.



INDUSTRY RL80

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



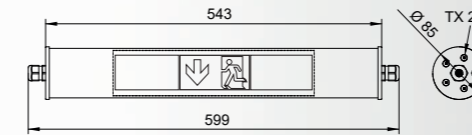
INDUSTRY RL80
Ceiling mounting as emergency luminaire
Item no. (illustration):
9046 09 0102 INDUSTRY RL80-AP5
9046 00 0002 INDUSTRY RL80 plastic folding bracket

Lighting technology and dimensional drawings

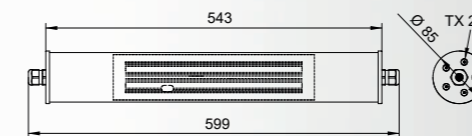
Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	3.9	8.9	10.1	4.2
3.0	4.4	10.1	11.1	4.5
3.5	4.8	11.1	11.9	4.7
4.0	4.9	12.1	12.5	4.9
4.5	5.0	13.0	13.1	5.0

INDUSTRY RL80-AP5, maintenance factor 0.57

Dimensional drawings [mm]:

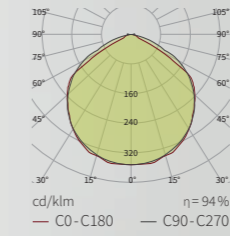


INDUSTRY RL80-RZ1
Illuminated escape route sign



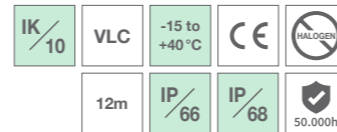
INDUSTRY RL80-AP5
Safety light

Light distribution:



Technical data

Installation type: Wall and ceiling mounting
Housing: Polycarbonate, sealing cap out of Aquamid 66G30
Protection class: □ (230V), ◇ (PLC24)
Protection type: IP66 and IP68 with immersion depth 1.2 m
IK Impact resistance level: IK10
Temperature range: -15°C to +40°C
Light colour: 5000K



Illuminated escape route signs/safety lighting

9046 0x 0101 INDUSTRY RL80-RZ1
9046 0x 0102 INDUSTRY RL80-AP5

Accessories

9046 00 0001 INDUSTRY RL80 stainless steel clamps V2A
9046 00 0002 INDUSTRY RL80 plastic folding bracket



NOTE: Dimmable version only possible with PLC24.

INDUSTRY E35

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



INDUSTRY E35-1 single-side
Wall installation

- Item no. (illustration):
 9045 09 0102 INDUSTRY E35-1, RZ-luminaire PLC24
 9045 00 0302 INDUSTRY E35 Special ESG toughened safety glass panel Px
 9045 00 0004 INDUSTRY E35, mounting bracket WD

Technical data

Installation type:	Wall and ceiling mounting
Housing:	V4A stainless steel
Panel:	PMMA or ESG toughened safety glass
Protection class:	⚡ (230V), ⚡ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK08
Temperature range:	-15°C to +40°C



Illuminated escape route signs / safety lighting

- 9045 0x 0102 INDUSTRY E35-1 single-side, RZ luminaire
 9045 0x 0202 INDUSTRY E35-2 two-sided, RZ luminaire
 9045 0x 0501 INDUSTRY E35-AP5, SL-luminaire

Accessories

- 9045 00 010x INDUSTRY E35, PMMA-panel Px
 9045 00 020x INDUSTRY E35 90°, PMMA-panel Px
 9045 00 0302 INDUSTRY E35 Special ESG toughened safety glass panel Px
 9045 00 0303 INDUSTRY E35 toughened safety glass, ISO 7010
 9045 00 0004 INDUSTRY E35, mounting bracket WD
 9045 00 0005 INDUSTRY E35, mounting bracket SK
 9045 00 0006 INDUSTRY E35, fastening element

Panel article number logic

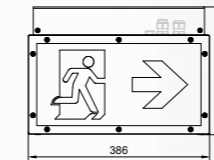
- xxxx xx xxx4 Left arrow
 xxxx xx xxx5 Right arrow
 xxxx xx xxx6 Down arrow
 xxxx xx xxx7 Special pictogram, parametrisable
 xxxx xx xxx8 Special pictogram ISO7010

Lighting technology and dimensional drawings

Installation height [m]	1 lux	1 lux	1 lux	1 lux
2.5	3.1	6.8	10.0	4.3
3.0	3.6	7.9	11.3	4.6
3.5	4.1	9.0	12.2	4.9
4.0	4.4	9.9	12.9	5.1
4.5	4.8	10.9	13.4	5.2

INDUSTRY E35 AP5, maintenance factor 0.57

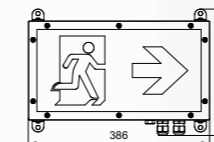
Dimensional drawings [mm]:



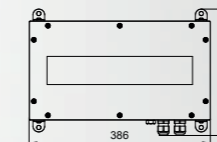
E35-1/E35-2*
Offset ceiling mounting
with fastening element



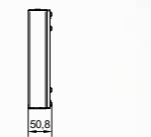
E35-1/E35-2
Suspended mounting
with mounting bracket SK



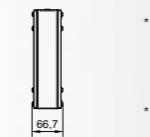
E35-1*
Wall installation
with mounting bracket WD



AP5 safety luminaire
Ceiling installation
with mounting bracket WD

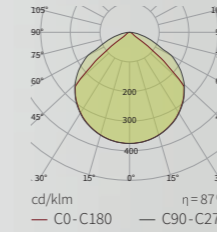


E35-1/E35-AP**
Single-side



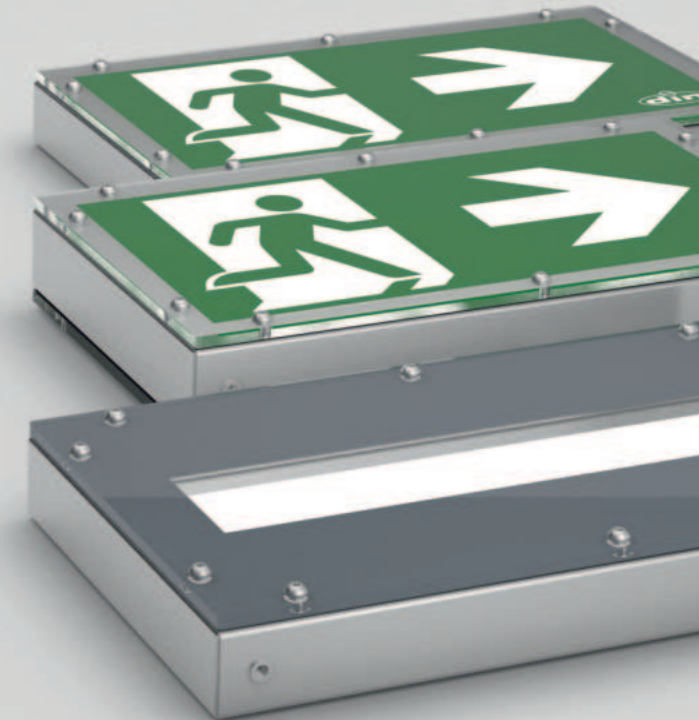
E35-2**
Dual-side

Light distribution:



* In the case of 90° wall mounting, the dimensions of the respective dimensional drawing apply, but rotated by 90°.

** Illustration of the side view single-side/dual-side without mounting accessories.



NOTE:
 Dimmable version only possible with PLC24.
 D-marking per EN 60598-2-24 for PLC24 and ILS.

INDUSTRY E20 FSU

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS

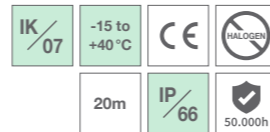


FSU INDUSTRY with changeable direction indication
Parallel wall installation, E20-1

Item no. (illustration):
9066 19 3101 INDUSTRY E20-1 Laser Arrow PLC FSU
9066 00 0010 INDUSTRY E20/E40-1 Mounting bracket W parallel

Technical data

Installation type:	Ceiling mounting, 90° wall mounting and ceiling mounting
Housing:	V4A stainless steel
Panel:	ESG - toughened safety glass
Protection class:	⚡ (230V), ⚡ (PLC24)
Protection type:	IP66
IK Impact resistance level:	IK07
Temperature range:	-15°C to +40°C



Accessories for one-sided version

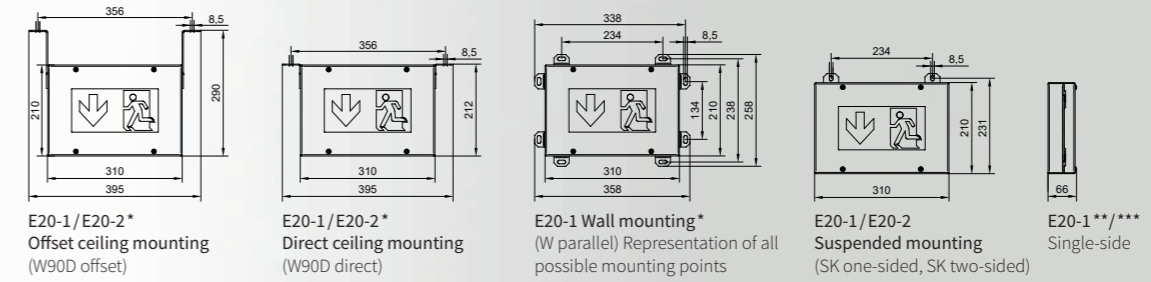
9066 00 0010	INDUSTRY E20/E40-1 Mounting bracket W parallel
9066 00 0020	INDUSTRY E20/E40-1 Mounting bracket W90D direct
9066 00 0030	INDUSTRY E20/E40-1 Mounting bracket W90D offset
9066 00 0040	INDUSTRY E20/E40-1 Mounting bracket SK one-sided

Accessories for two-sided version

9066 00 0050	INDUSTRY E20/E40-2 Mounting bracket W90D direct
9066 00 0060	INDUSTRY E20/E40-2 Mounting bracket W90D offset
9066 00 0070	INDUSTRY E20/E40-2 Mounting bracket SK two-sided

Dimensioned drawings and design variants

Dimensional drawings [mm]:



* In the case of 90° wall mounting, the dimensions of the respective dimensional drawing apply, but rotated by 90°.
** Two single-sided lights are required for two-sided mounting E20-2. Dimension thus 132 mm.
*** Illustration of the side view single-side/dual-side without mounting accessories.

Temporarily visible escape sign luminaires

9066 xx 2101 INDUSTRY E20-1 Laser Picto one-sided

Luminaire states:



Escape sign luminaires with blocking function

9066 xx 1101 INDUSTRY E20-1 X-Picto one-sided

Luminaire states:



Direction arrow changeover function, temporarily visible

9066 xx 3101 INDUSTRY E20-1 Laser Arrow one-sided

Luminaire states:



NOTE: Dimmable version only possible with PLC24.

INDUSTRY E40 FSU

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS

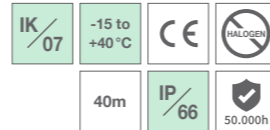


FSU INDUSTRY with blocking function
Direct ceiling mounting one-sided, E40-1

Item no. (illustration):
9066 19 1111 INDUSTRY E40-1 X-Picto PLC FSU
9066 00 0020 INDUSTRY E20/E40-1 Mounting bracket W90D direct

Technical data

Installation type: Ceiling mounting, 90° wall mounting and ceiling mounting
Housing: V4A stainless steel
Panel: ESG - toughened safety glass
Protection class: ⚡ (230V), ⚡ (PLC24)
Protection type: IP66
IK Impact resistance level: IK07
Temperature range: -15°C to +40°C



Accessories for one-sided version

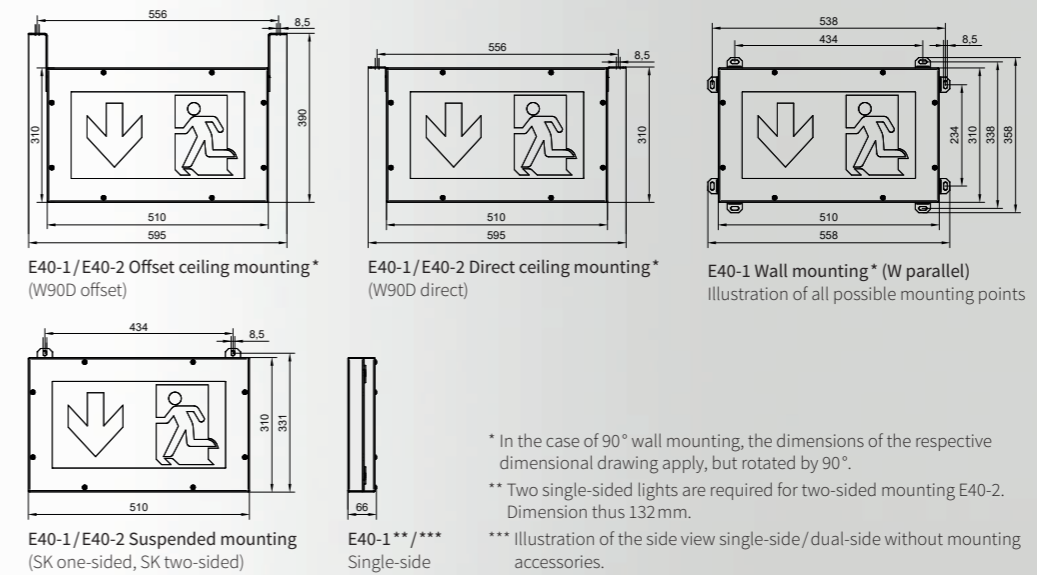
9066 00 0010 INDUSTRY E20/E40-1 Mounting bracket W parallel
9066 00 0020 INDUSTRY E20/E40-1 Mounting bracket W90D direct
9066 00 0030 INDUSTRY E20/E40-1 Mounting bracket W90D offset
9066 00 0040 INDUSTRY E20/E40-1 Mounting bracket SK one-sided

Accessories for two-sided version

9066 00 0050 INDUSTRY E20/E40-2 Mounting bracket W90D direct
9066 00 0060 INDUSTRY E20/E40-2 Mounting bracket W90D offset
9066 00 0070 INDUSTRY E20/E40-2 Mounting bracket SK two-sided

Dimensioned drawings and design variants

Dimensional drawings [mm]:



Temporarily visible escape sign luminaires

9066 xx 2111 INDUSTRY E40-1 Laser Picto one-sided

Luminaire states:



Escape sign luminaires with blocking function

9066 xx 1111 INDUSTRY E40-1 X-Picto one-sided

Luminaire states:



Direction arrow changeover function, temporarily visible

9066 xx 3111 INDUSTRY E40-1 Laser Arrow one-sided

Luminaire states:



NOTE: Dimmable version only possible with PLC24.



INDUSTRY E20 FSU 3-part

LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



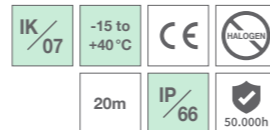
FSU INDUSTRY with changeable direction indication
Offset mounting one-sided, E20-1 3 pcs.

Item no. (illustration):
9066 19 4101 INDUSTRY E20-1 3 pcs. X Picto PLC FSU
9066 00 0030 INDUSTRY E20/E40-1 Mounting bracket W90D offset

P2

Technical data

Installation type:	Ceiling mounting, 90° wall mounting and ceiling mounting
Housing:	V4A stainless steel
Panel:	ESG - toughened safety glass
Protection class:	◆ (PLC24)
Protection type:	IP66
IK Impact resistance level:	IK07
Temperature range:	-15°C to +40°C



Accessories for one-sided version

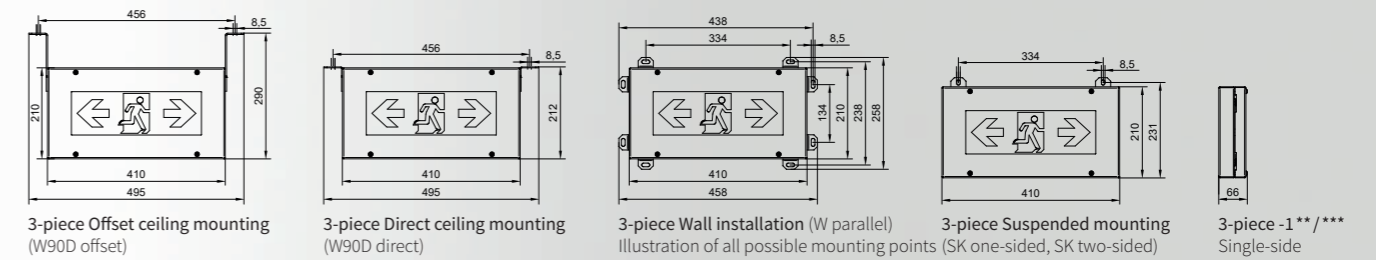
9066 00 0010	INDUSTRY E20/E40-1 Mounting bracket W parallel
9066 00 0020	INDUSTRY E20/E40-1 Mounting bracket W90D direct
9066 00 0030	INDUSTRY E20/E40-1 Mounting bracket W90D offset
9066 00 0040	INDUSTRY E20/E40-1 Mounting bracket SK one-sided

Accessories for two-sided version

9066 00 0050	INDUSTRY E20/E40-2 Mounting bracket W90D direct
9066 00 0060	INDUSTRY E20/E40-2 Mounting bracket W90D offset
9066 00 0070	INDUSTRY E20/E40-2 Mounting bracket SK two-sided

Dimensioned drawings and design variants

Dimensional drawings [mm]:

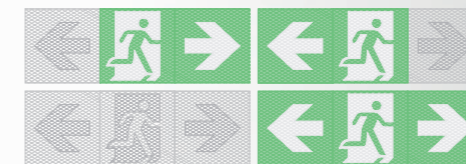


* In the case of 90° wall mounting, the dimensions of the respective dimensional drawing apply, but rotated by 90°.
** Two single-sided lights are required for two-sided mounting E20-2. Dimension thus 132 mm.
*** Illustration of the side view single-side/dual-side without mounting accessories.

Temporarily visible escape sign luminaires, 3-piece, changeover function

9066 19 5101 INDUSTRY E20-1 3 pcs. Laser Picto one-sided

Luminaire states:



Escape sign luminaires with blocking function, 3-piece, changeover function

9066 19 4101 INDUSTRY E20-1 3 pcs. X-Picto one-sided

Luminaire states:



NOTE: Dimmable version only possible with PLC24.

BASIC 2 ICE

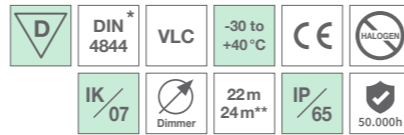
LUMINAIRES FOR DIFFICULT ENVIRONMENTAL CONDITIONS



BASIC 2 E-LED RZ2 Ice
Ceiling installation
Item no. (illustration):
9071 09 0400 BASIC 2 E-LED Ice RZ2 PLC24

Technical data

Installation type:	Wall and ceiling mounting
Housing:	Polycarbonate, flame-retardant, transparent-satinised
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-30 °C to +40 °C



Illuminated escape route signs / safety lighting

9071 0x 0300	BASIC 2 E-LED Ice RZ1/SL
9071 09 0310	BASIC 2 E-LED Ice RZ1/SL 115mA
9071 0x 0400	BASIC 2 E-LED Ice RZ2
9071 09 0410	BASIC 2 E-LED Ice RZ2 115mA

Accessories

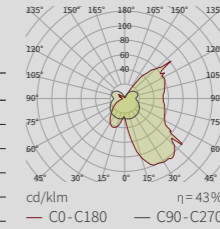
9071 00 0001	E-LED RZ1 RD canopy
9071 00 0002	E-LED RZ2 RD canopy
9071 00 0003	E-LED panel PL/PR/PU/BL**
9071 00 0004	E-LED panel PX**
9071 00 0006	E-LED RZ2 Picto insert PX
9071 00 0007	E-LED RZ1 Picto insert PX

* Compliance with standard DIN 4844 with BASIC 2 E-LED Ice RZ1/SL (without panel), BASIC 2 E-LED Ice RZ1/SL 115mA (without panel) and BASIC 2 E-LED Ice RZ2.

** 24m recognition distance in combination with E-LED panels.

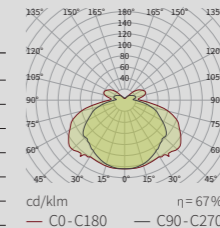
Lighting technology and dimensional drawings

Installation height [m]	1 lux		0.5 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	-	3.1	2.4	3.7	0.6	2.3	3.6	6.5
3.0	-	3.0	-	4.0	-	2.2	2.7	6.4
3.5	-	-	-	4.5	-	1.9	1.2	6.3
4.0	-	-	-	4.2	-	1.4	-	6.0
4.5	-	-	-	4.3	-	-	-	5.4



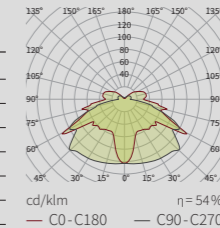
BASIC 2 E-LED Ice RZ1 as wall-mounted escape sign luminaire, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.0	2.0	3.4	5.8	8.9	5.1	7.6	1.6	3.0
2.5	1.6	3.6	6.0	9.5	5.0	8.2	1.5	3.1
3.0	1.2	3.6	5.6	9.9	4.7	8.7	1.0	3.1
3.5	-	3.6	4.9	10.2	4.3	9.0	-	3.0
4.0	-	3.3	3.7	10.4	3.1	9.0	-	2.8
4.5	-	2.8	1.9	10.4	1.7	8.7	-	2.5



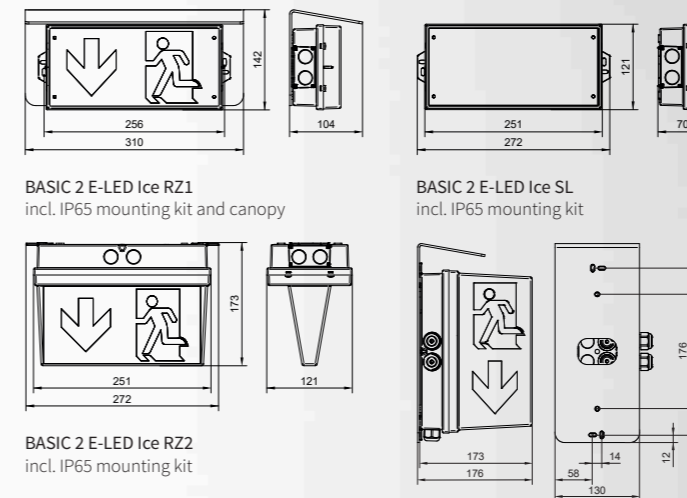
BASIC 2 E-LED Ice SL as safety light with film, ceiling-mounted, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.0	0.7	2.5	3.9	8.2	5.3	8.4	1.8	3.0
2.5	0.5	2.4	3.1	8.2	5.5	8.8	1.5	3.3
3.0	0.1	2.0	1.9	7.2	5.1	8.8	0.5	3.4
3.5	-	1.3	1.5	6.7	4.0	9.3	-	3.2
4.0	-	1.0	0.7	6.2	2.2	9.6	-	2.9
4.5	-	0.8	-	5.1	-	9.6	-	2.4



BASIC 2 E-LED Ice RZ2 as ceiling-mounted escape sign luminaire, maintenance factor 0.57

Dimensional drawings [mm]:



BASIC 2 E-LED Ice RZ1
incl. IP65 mounting kit and canopy

BASIC 2 E-LED Ice SL
incl. IP65 mounting kit

BASIC 2 E-LED Ice RZ2
incl. IP65 mounting kit

BASIC 2 E-LED Ice RZ2
incl. IP65 mounting kit and canopy
Note: With the BASIC 2 E-LED Ice RZ2, the rain canopy can only be used in the 90° mounting variant.

NOTE:
Dimmable version only possible with PLC24.
D-marking per EN 60598-2-24 for PLC24 and ILS.
The associated canopy item is essential when mounting in uncovered outdoor areas.
The IP65 mounting brackets are included in the scope of delivery of the BASIC 2 E-LED Ice luminaires.



SAFETY LIGHTING FOR POTENTIALLY EXPLOSIVE AREAS

Highest safety precautions and 100% reliability of the products are a must in potentially explosive environments.

The Ex labelling per Directive 2014/34/EU defines the area of application of these luminaires. In this context, the distinction between explosive gas and dust atmospheres, as well as the zone subdivision per EN 60079-10-1 and EN 60079-10-2, is crucial. The conformity of our Ex luminaires with regulations is confirmed by the ATEX and IECEx certification.

DID YOU KNOW?

The Ex zone classification per EN 60079-10-1 and EN 60079-10-2 is carried out based on the frequency and sustained duration of the explosive atmosphere. For more information, see page 68.



More about our solutions for hazardous areas.



INDUSTRY EX X32

LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



INDUSTRY Ex X32 RZ1
Wall mounting with rain canopy
Item no. (illustration):
9075 09 2100 INDUSTRY Ex X32 RZ1 PLC
9075 00 0102 INDUSTRY Ex X32/X32 RZ1, Picto PR
9075 00 0001 INDUSTRY Ex X32/X32 RD1

Technical data

Installation type:	Wall mounting (RZ1), 90° wall mounting and ceiling mounting (RZ2)
Ex labelling:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80 °C Dc
Housing:	Polycarbonate, flame-retardant, UV-stabilised, jet black RAL 9005
Cover:	Polycarbonate, flame-retardant, UV-stabilised, transparent, PMMA pictograms
Protection class:	□ (230V), ◇ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Suitable in:	Zone 2, Zone 22



Illuminated escape route signs/safety lighting

9075 0x 210x	INDUSTRY Ex X32 RZ1
9075 0x 220x	INDUSTRY Ex X32 RZ2

Accessories

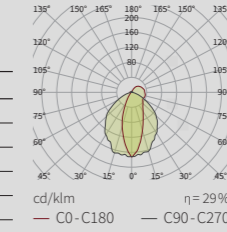
9075 00 0001	INDUSTRY Ex X32/X32 RD1
9075 00 0002	INDUSTRY Ex X32/X32 RD2
9075 00 0009	INDUSTRY Ex X32 string
9075 00 010x	INDUSTRY Ex X32/X32 RZ1, Picto Px
9075 00 020x	INDUSTRY Ex X32/X32 RZ2, Picto Px/Px

Panel article number logic

Variant Px (single-side)	
xxxx xx xxx1	Left arrow
xxxx xx xxx2	Right arrow
xxxx xx xxx3	Down arrow
xxxx xx xxx5	Special pictogram, parametrisable
xxxx xx xxx6	Special pictogram ISO7010
Variant Px/Px (both sides)	
xxxx xx xxx1	Left/right arrow
xxxx xx xxx2	Down arrow/blank
xxxx xx xxx3	Left/right arrow 90°
xxxx xx xxx4	Down arrow/blank 90°
xxxx xx xxx5	Special pictogram, parametrisable
xxxx xx xxx6	Special pictogram ISO7010

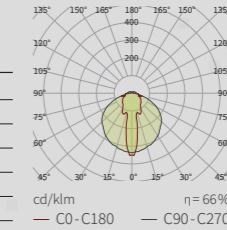
Lighting technology and dimensional drawings

Installation height [m]	1 lux		0.5 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	1.1	2.1	1.7	2.9	0.6	2.3	3.7	6.4
3.0	0.9	2.1	1.7	3.0	-	2.5	3.8	7.0
3.5	0.7	2.0	1.6	2.9	-	2.5	3.7	7.5
4.0	0.5	1.9	1.4	2.9	-	2.5	2.9	7.8
4.5	-	1.7	1.3	2.9	-	2.4	2.1	8.1



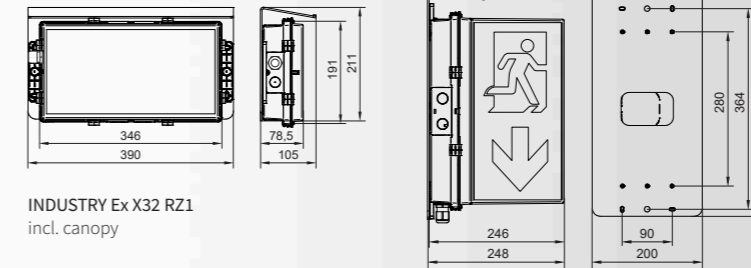
INDUSTRY Ex X32 RZ1 as wall-mounted, escape sign luminaire, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	115	350	115	350	115	350	115	350
2.5	1.6	3.0	4.9	8.0	7.9	11.0	3.0	4.5
3.5	0.9	2.9	4.6	8.4	8.6	12.7	3.0	5.0
4.5	0.8	2.8	3.6	8.4	8.7	13.9	2.7	5.3
5.5	0.6	2.6	2.1	8.0	8.3	14.6	1.8	5.3
6.5	-	1.3	2.1	7.9	7.5	15.1	-	5.2



INDUSTRY Ex X32 RZ2 as ceiling-mounted, escape sign luminaire, maintenance factor 0.57

Dimensional drawings [mm]:



INDUSTRY Ex X32 RZ1
incl. canopy

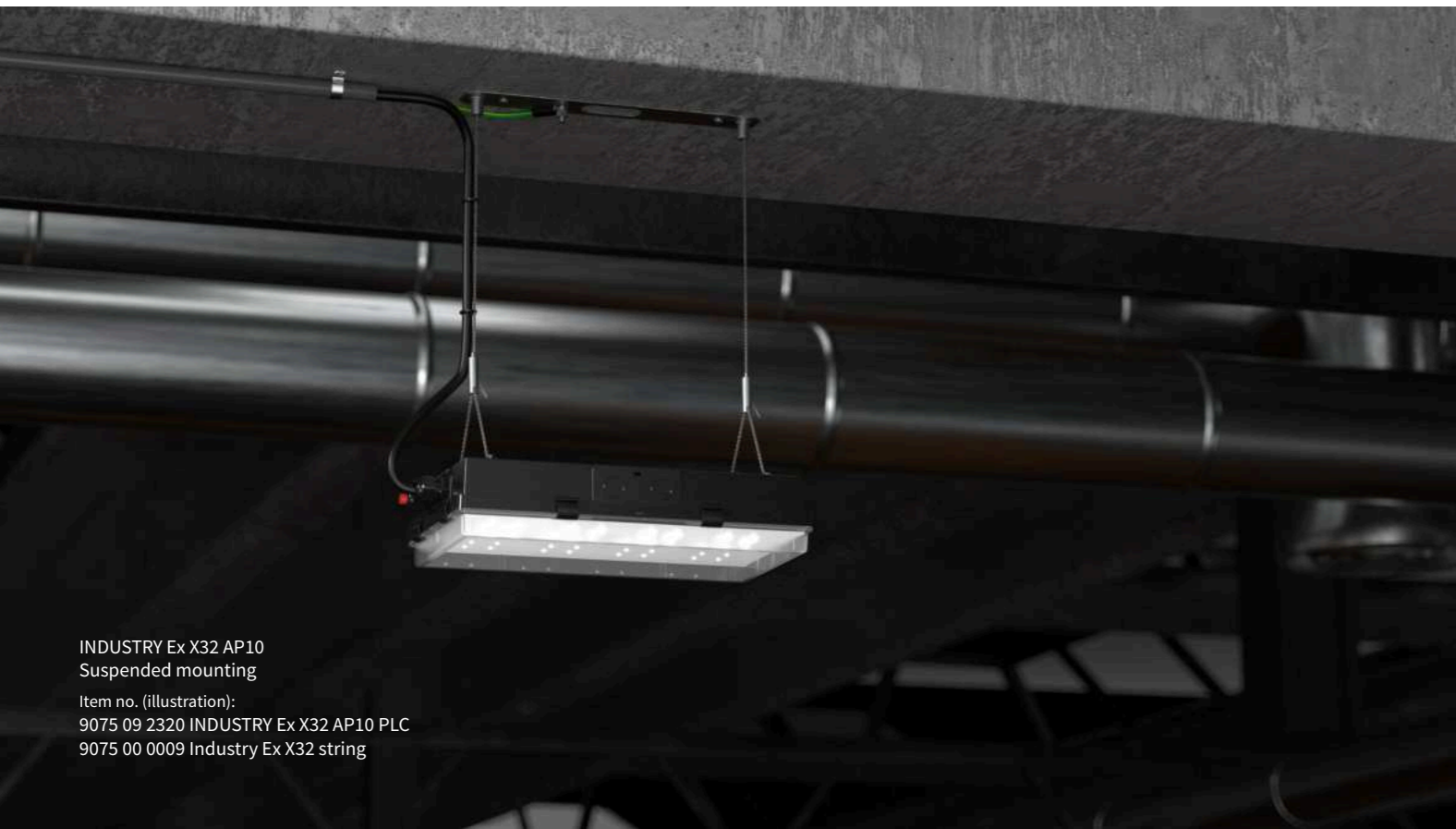
INDUSTRY Ex X32 RZ2
incl. canopy
Note: With the INDUSTRY Ex X32 RZ2, the rain canopy can only be used in the 90° mounting variant.



NOTE:
Dimmable version only possible with PLC24.
The associated canopy item is essential when mounting in uncovered outdoor areas.

INDUSTRY EX X32

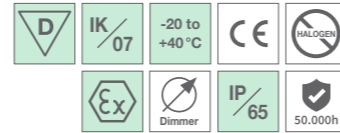
LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



INDUSTRY Ex X32 AP10
Suspended mounting
Item no. (illustration):
9075 09 2320 INDUSTRY Ex X32 AP10 PLC
9075 00 0009 Industry Ex X32 string

Technical data

Installation type:	Ceiling mounting
Ex labelling:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80 °C Dc
Housing:	Polycarbonate, flame-retardant, UV-stabilised, jet black RAL 9005
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Protection class:	□ (230V), ◊ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Suitable in:	Zone 2, Zone 22



Safety lights

9075 0x 2310	INDUSTRY Ex X32 AP3
9075 0x 2300	INDUSTRY Ex X32 AP5
9075 09 2320	INDUSTRY Ex X32 AP10 PLC24
9075 0x 2410	INDUSTRY Ex X32 SL3
9075 0x 2400	INDUSTRY Ex X32 SL5
9075 09 2420	INDUSTRY Ex X32 SL10 PLC24
9075 09 2420	INDUSTRY Ex X32 TS10 PLC24
9075 0x 2500	INDUSTRY Ex X32 TS5
9075 0x 2600	INDUSTRY Ex X32 STS5
9075 09 2620	INDUSTRY Ex X32 STS10 PLC24

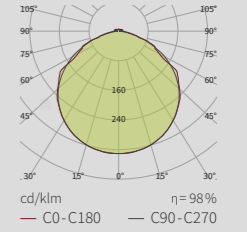
Accessories

9075 00 0009	INDUSTRY Ex X32 string
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Lighting technology and dimensional drawings

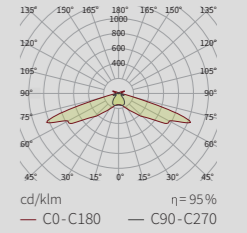
Installation height [m]	1 lux			1 lux			1 lux			1 lux			
	AP3, AP5	AP10		AP3	AP5	AP10	AP3	AP5	AP10	AP3	AP5	AP10	
mA	115	350	350	115	350	350	115	350	350	115	350	350	
2.5	7.5	3.0	4.2	7.4	7.7	10.3	20.1	7.7	10.5	19.6	3.0	4.3	7.3
3.5	8.5	3.1	5.0	7.3	8.6	11.8	20.5	8.5	12.2	20.3	3.1	4.9	7.3
4.5	9.5	2.8	5.2	7.1	8.8	13.6	20.7	8.7	13.4	20.7	2.8	5.2	7.1
5.5	10.5	2.0	5.3	6.7	8.5	14.4	20.9	8.4	14.2	20.8	2.0	5.3	6.7
6.5	11.5	-	5.1	6.1	7.7	14.8	20.8	7.7	14.7	20.7	-	5.1	6.1

INDUSTRY Ex X32 AP as ceiling-mounted, safety light, maintenance factor 0.57



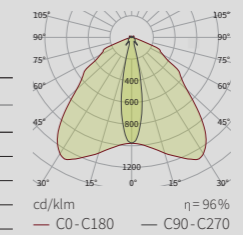
Installation height [m]	1 lux			1 lux			1 lux			1 lux			
	SL3, SL5	SL10		SL3	SL5	SL10	SL3	SL5	SL10	SL3	SL5	SL10	
mA	115	350	350	115	350	350	115	350	350	115	350	350	
2.5	7.5	6.3	7.8	14.0	14.8	17.2	40.1	5.0	6.6	13.1	2.0	2.7	4.9
3.5	8.5	5.9	9.7	14.1	17.2	22.0	41.2	5.7	7.7	13.6	2.0	3.2	4.7
4.5	9.5	-	10.8	12.1	14.3	26.1	42.1	5.1	8.8	13.9	-	3.5	3.9
5.5	10.5	-	10.0	-	9.4	28.9	35.2	3.2	9.5	13.5	-	3.5	-
6.5	11.5	-	9.7	-	-	29.9	30.5	-	9.9	10.0	-	3.1	-

INDUSTRY Ex X32 SL as ceiling-mounted, safety light, maintenance factor 0.57



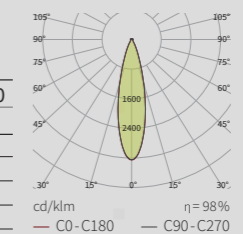
Installation height [m]	1 lux		1 lux		1 lux		1 lux		
	TS5	TS10	TS5	TS10	TS5	TS10	TS5	TS10	
mA	350	350	350	350	350	350	350	350	
6	12,5	8,4	13,2	19,7	33,6	4,2	7,2	1,7	3,1
10	16,5	9,8	14,6	24,8	36,4	5,5	8,5	2,3	3,3
14	20,5	10,6	14,9	27,6	39,5	6,5	9,2	2,2	3,1
18	24,5	7,8	12,4	29,9	41,7	6,7	9,5	0,8	1,9
22	28,5	-	-	19,0	31,1	4,3	7,3	-	-

INDUSTRY Ex X32 TS as ceiling-mounted, safety light, maintenance factor 0.57

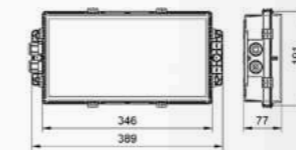


Installation height [m]	1 lux		1 lux		1 lux		1 lux		
	STS5	STS10	STS5	STS10	STS5	STS10	STS5	STS10	
mA	350	350	350	350	350	350	350	350	
14,5	20,5	5,0	7,0	12,6	17,8	12,6	17,8	5,0	7,0
18,5	24,5	5,2	7,3	13,7	19,0	13,8	19,0	5,2	7,3
22,5	28,5	5,1	7,3	14,5	19,9	14,5	19,8	5,1	7,3
26,5	32,5	4,5	7,1	14,8	20,5	14,8	20,5	4,5	7,0
30,5	36,5	3,0	6,4	14,6	20,8	14,7	20,7	3,0	6,3

INDUSTRY Ex X32 STS as ceiling-mounted, safety light, maintenance factor 0.57



Dimensional drawings [mm]:



INDUSTRY Ex X32 AP/SL/TS/STS



INDUSTRY EX X32 RZ1 FSU

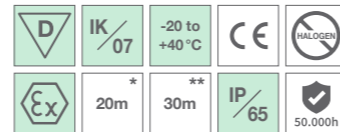
LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



FSU INDUSTRY Ex X32 RZ1 with changeable direction indication
Wall mounting, 3 pcs.
Item no. (illustration):
9075 19 3110 INDUSTRY Ex X32 RZ1 X-Picto PLC FSU

Technical data

Installation type:	Wall mounting
Ex labelling:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80 °C Dc
Housing:	Polycarbonate, flame-retardant, UV-stabilised, jet black RAL 9005
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Panel:	PC/PMMA with internal lens light control
Protection class:	◆ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Suitable in:	Zone 2, Zone 22



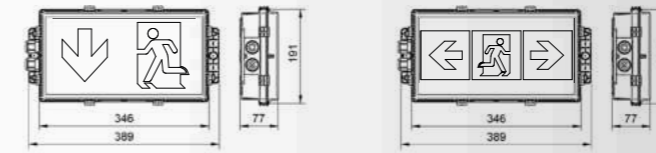
Accessories

9075 00 0001	INDUSTRY Ex X32/X32 RD1
9075 00 0009	INDUSTRY Ex X32 string

* 20m recognition distance with all 3-piece PLC FSU escape sign luminaires
** 30m recognition distance with Laser Picto and X-Picto PLC FSU escape sign luminaires

Dimensioned drawings and design variants

Dimensional drawings [mm]:



INDUSTRY Ex X32 RZ1 Laser Picto / X-Picto
Temporarily visible escape sign luminaires,
with blocking function

INDUSTRY Ex X32 RZ1 3 pcs. Laser Picto / X-Picto
Temporarily visible escape sign luminaires, with blocking
function, 3-piece, changeover function

Temporarily visible escape sign luminaires

9075 19 3120 INDUSTRY Ex X32 RZ1 Laser Picto PLC FSU **

Luminaire states:



Escape sign luminaires with blocking function

9075 19 3110 INDUSTRY Ex X32 RZ1 X-Picto PLC FSU **

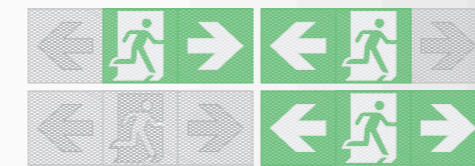
Luminaire states:



Temporarily visible escape sign luminaires, 3-piece, changeover function

9075 19 3150 INDUSTRY Ex X32 RZ1 L-P 3 pcs. PLC FSU *

Luminaire states:



Escape sign luminaires with blocking function, 3-piece, changeover function

9075 19 3140 INDUSTRY Ex X32 RZ1 X-Picto 3 pcs. PLC FSU *

Luminaire states:



NOTE:
The associated canopy item is essential when
mounting in uncovered outdoor areas.



INDUSTRY EX X32 RZ2 FSU

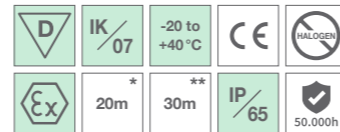
LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



FSU INDUSTRY Ex X32 RZ2 with changeable direction indication
Ceiling mounting, 3-piece
Item no. (illustration):
9075 19 3211 INDUSTRY Ex X32 RZ2-1 X-Picto PLC FSU

Technical data

Installation type:	90° wall mounting and ceiling mounting
Ex labelling:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80 °C Dc
Housing:	Polycarbonate, flame-retardant, UV-stabilised, jet black RAL 9005
Cover:	Polycarbonate, flame-retardant, UV-stabilized, transparent
Panel:	PC/PMMA with internal lens light control
Protection class:	◆ (PLC24)
Protection type:	IP65
IK Impact resistance level:	IK07
Temperature range:	-20 °C to +40 °C
Suitable in:	Zone 2, Zone 22



Accessories

9075 00 0002	INDUSTRY Ex X32/X32 RD2
9075 00 0009	INDUSTRY Ex X32 string

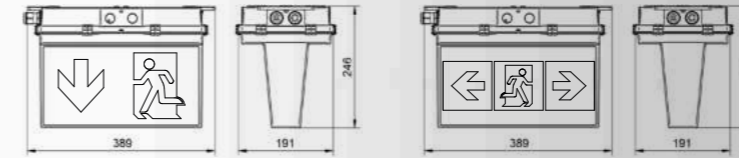
Light item number logic

xxxx xx xxxx	1 Single-side
xxxx xx xxxx	2 Dual-side

* 20m recognition distance with all 3-piece PLC FSU escape sign luminaires
** 30m recognition distance with Laser Picto and X-Picto PLC FSU escape sign luminaires

Dimensioned drawings and design variants

Dimensional drawings [mm]:



INDUSTRY Ex X32 RZ2 Laser Picto / X-Picto
Temporarily visible escape sign luminaires,
with blocking function

INDUSTRY Ex X32 RZ2 3 pcs. Laser Picto / X-Picto
Temporarily visible escape sign luminaires, with
blocking function, 3-piece, changeover function

Temporarily visible escape sign luminaires

9075 19 322x INDUSTRY Ex X32 RZ2-x Laser Picto PLC FSU **

Luminaire states:



Escape sign luminaires with blocking function

9075 19 321x INDUSTRY Ex X32 RZ2-x X-Picto PLC FSU **

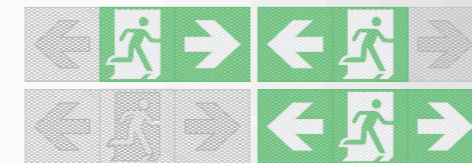
Luminaire states:



Temporarily visible escape sign luminaires, 3-piece, changeover function

9075 19 325x INDUSTRY Ex X32 RZ2-x L-Picto 3 pcs. PLC FSU *

Luminaire states:



Escape sign luminaires with blocking function, 3-piece, changeover function

9075 19 324x INDUSTRY Ex X32 RZ2-x X-Picto 3 pcs. PLC FSU *

Luminaire states:

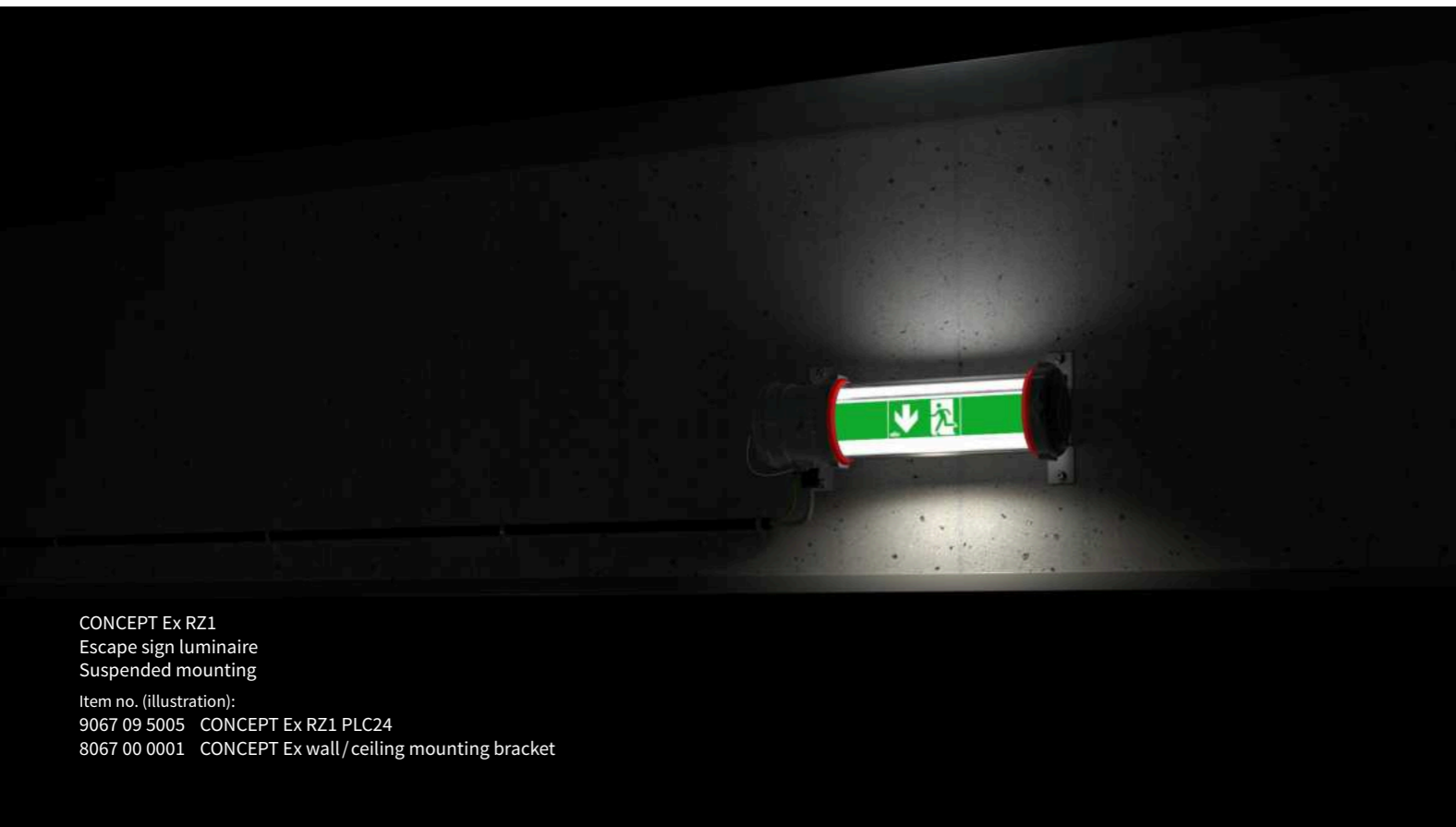


NOTE:
The associated canopy item is essential when
mounting in uncovered outdoor areas.



CONCEPT EX

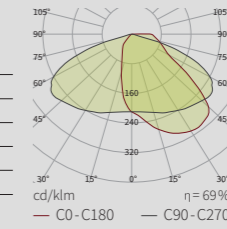
LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



CONCEPT Ex RZ1
Escape sign luminaire
Suspended mounting
Item no. (illustration):
9067 09 5005 CONCEPT Ex RZ1 PLC24
8067 00 0001 CONCEPT Ex wall/ceiling mounting bracket

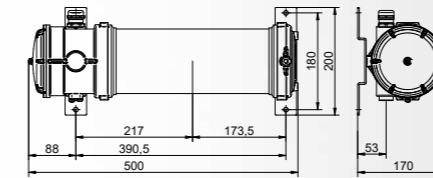
Lighting technology and dimensional drawings

Installation height [m]	1 lux	0.5 lux	1 lux	1 lux
2.5	2.7	3.4	2.7	7.6
3.0	2.8	3.7	2.5	7.9
3.5	2.6	3.9	2.1	7.8
4.0	2.2	4.0	1.4	7.4
4.5	-	3.9	-	6.9

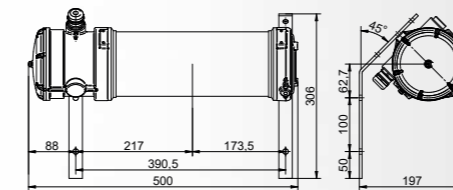


CONCEPT Ex RZ1 plus/duo, maintenance factor 0.57

Dimensional drawings [mm]:



CONCEPT Ex wall mounting (fastening hole 4x ø 8.5 mm)



CONCEPT Ex 45° wall mounting (fastening hole 4x ø 10 mm)

Technical data

Installation type:	Wall and ceiling mounting
Ex labelling:	II 2G Ex db op is IIC T6 Gb II 2D Ex op is tb IIIC T85°C Db
Ex housing:	Copper-free aluminium, combined with high-temperature resistant borosilicate glass tube
Concept 2 housing:	Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Concept 2 cover:	Polycarbonate, flame-retardant, UV-stabilised
Protection class:	⊕ (230V), ⬠ (PLC24)
Protection type:	IP66
Temperature range:	-15°C to +40°C
Suitable in:	Zone 1, Zone 2, Zone 21, Zone 22



Illuminated escape route signs / safety lighting

9067 0x 5005	CONCEPT Ex RZ1
9067 0x 5018	CONCEPT Ex RZ1 plus
9067 09 5019	CONCEPT Ex RZ1 duo PLC24
9067 0x 5007	CONCEPT Ex RZ2

Accessories

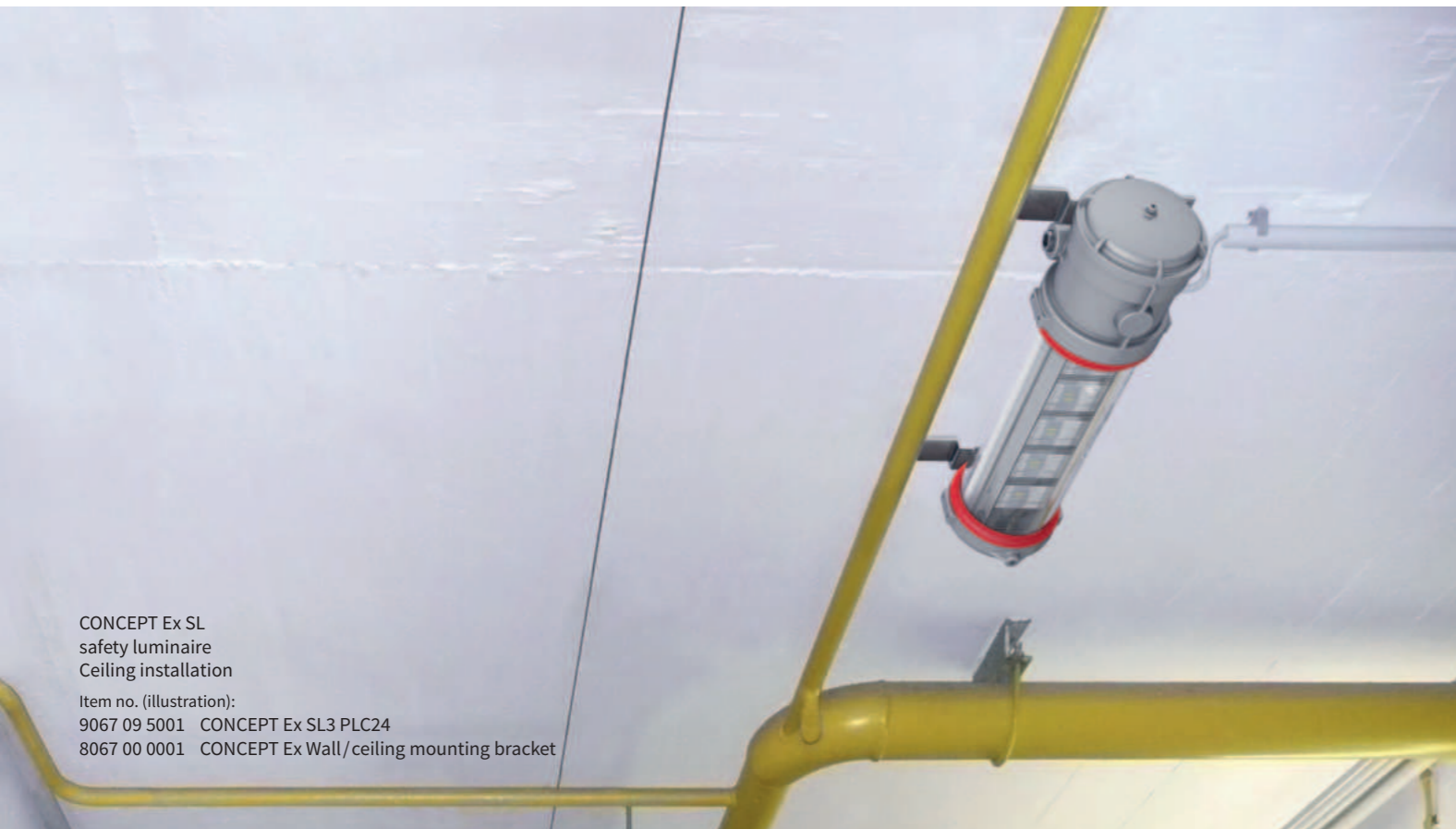
8067 00 0001	CONCEPT Ex wall/ceiling mounting bracket
8067 00 0003	CONCEPT Ex 45° wall mounting bracket
8067 00 0004	CONCEPT Ex 1/2" NPT cable gland
8067 00 0005	CONCEPT Ex 3/4" NPT cable gland
8067 00 0006	CONCEPT Ex 3/4"-1/2" thread reduction



NOTE: Dimmable version only possible with PLC24.

CONCEPT EX

LUMINAIRES FOR POTENTIALLY EXPLOSIVE AREAS



CONCEPT Ex SL
safety luminaire
Ceiling installation
Item no. (illustration):
9067 09 5001 CONCEPT Ex SL3 PLC24
8067 00 0001 CONCEPT Ex Wall/ceiling mounting bracket

Technical data

Installation type:	Wall and ceiling mounting
Ex labelling:	II 2G Ex db op is IIC T6 Gb II 2D Ex op is tb IIIC T85°C Db
Ex housing:	Copper-free aluminium, combined with high-temperature resistant borosilicate glass tube
Concept 2 housing:	Polycarbonate, flame-retardant, signal white, RAL 9003, UV-stabilised
Concept 2 cover:	Polycarbonate, flame-retardant, transparent, UV-stabilised
Protection class:	⊕ (230V), ⬠ (PLC24)
Protection type:	IP66
Temperature range:	-15°C to +40°C
Suitable in:	Zone 1, Zone 2, Zone 21, Zone 22



Illuminated escape route signs / safety lighting

9067 09 5001	CONCEPT Ex SL3 PLC24
9067 0x 5003	CONCEPT Ex SL5
9067 09 5009	CONCEPT Ex AP3 PLC24
9067 0x 5011	CONCEPT Ex AP5
9067 09 5013	CONCEPT Ex TS3 PLC24
9067 0x 5015	CONCEPT Ex TS5
9067 09 5016	CONCEPT Ex AS3 PLC24
9067 0x 5017	CONCEPT Ex AS5

Accessories

8067 00 0001	CONCEPT Ex wall/ceiling mounting bracket
8067 00 0002	CONCEPT Ex fastening kit for suspended mounting
8067 00 0003	CONCEPT Ex 45° wall mounting bracket
8067 00 0004	CONCEPT Ex 1/2" NPT cable gland
8067 00 0005	CONCEPT Ex 3/4" NPT cable gland
8067 00 0006	CONCEPT Ex 3/4"-1/2" thread reduction

Lighting technology and dimensional drawings

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	
2.5	2.8	3.8	7.2	8.5	6.9	9.4	2.6	3.9
3.0	2.8	4.3	7.9	9.8	7.3	10.3	2.6	4.1
3.5	2.8	4.7	8.1	10.9	7.5	11.0	2.5	4.3
4.0	2.7	4.8	8.2	11.8	7.6	11.5	2.5	4.4
4.5	2.5	4.9	8.1	12.7	7.5	11.9	2.5	4.5

CONCEPT Ex AP3 | CONCEPT Ex AP5, maintenance factor 0.57

Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	
2.5	1.5	2.1	3.8	4.9	10.0	12.4	4.0	5.4
3.0	1.5	2.2	4.0	5.4	10.6	14.0	4.4	6.0
3.5	1.4	2.4	4.2	5.8	11.4	15.4	4.2	6.3
4.0	1.3	2.5	4.4	6.3	12.1	16.6	4.3	6.6
4.5	1.1	2.5	4.3	6.7	12.3	17.5	4.4	7.1

CONCEPT Ex SL3 | CONCEPT Ex SL5, maintenance factor 0.57

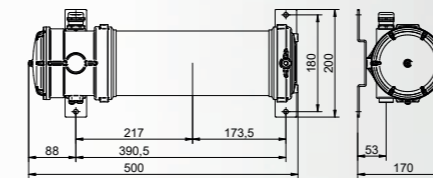
Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	
6.0	1.9	3.8	6.7	9.7	9.9	15.7	3.3	6.0
7.0	1.2	4.0	6.4	10.4	9.4	16.4	2.7	6.0
8.0	-	4.0	5.7	10.6	9.5	16.9	-	5.7
9.0	-	3.6	4.7	11.0	7.0	17.1	-	5.6
10.0	-	3.3	2.9	11.4	5.2	17.0	-	5.7

CONCEPT Ex TS3 | CONCEPT Ex TS5, maintenance factor 0.57

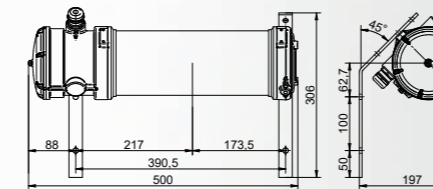
Installation height [m]	1 lux		1 lux		1 lux		1 lux	
	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	1 lux	
2.5	1.9	3.1	5.5	7.3	8.2	11.5	2.9	4.4
3.0	1.8	3.3	5.7	8.1	8.6	12.4	3.1	4.9
3.5	1.5	3.4	5.5	8.8	8.5	12.5	3.0	5.4
4.0	1.1	3.3	5.3	9.3	8.4	13.5	1.3	5.4
4.5	-	3.3	4.9	9.6	7.3	14.5	-	5.0

CONCEPT Ex AS3 | CONCEPT Ex AS5, maintenance factor 0.57

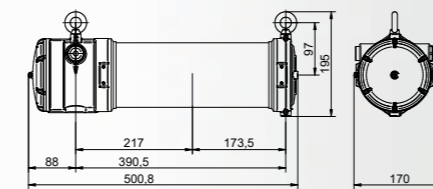
Dimensional drawings [mm]:



CONCEPT Ex ceiling mounting (fastening hole 4x ø 8.5 mm)

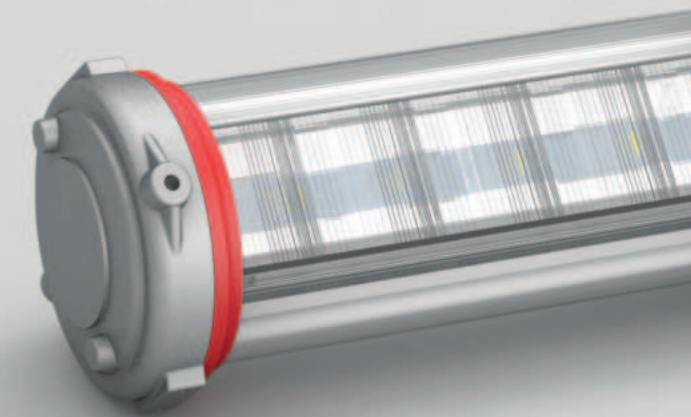
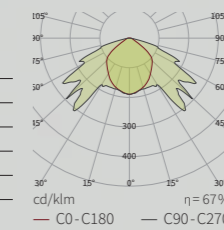
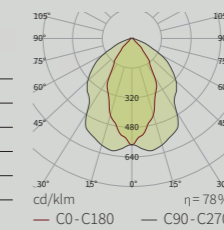
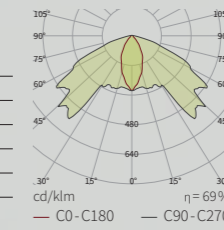
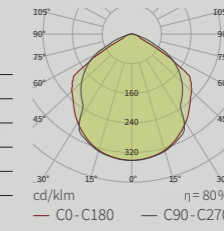


CONCEPT Ex 45° wall mounting (fastening hole 4x ø 10 mm)



CONCEPT Ex rope mounting (inner fastening ring 2x ø 20.6 mm)

NOTE: Dimmable version only possible with PLC24.



EXPLOSION PROTECTION FOR EMERGENCY LIGHTING

Hazardous areas are subject to strict requirements and measures per EU Directive 1999/92/EC, EU Directive 2014/34/EU and further regulations. The Ex areas are subdivided in accordance with defined specifications and require a **special design of the emergency luminaires**. Such conditions prevail, for example, in chemical factories, paint shops, refineries, cleaning plants, mills or tank farms for flammable substances.



A compact summary of the most important steps for your ex-project.

DID YOU KNOW?

Three elements are required to trigger an explosion:

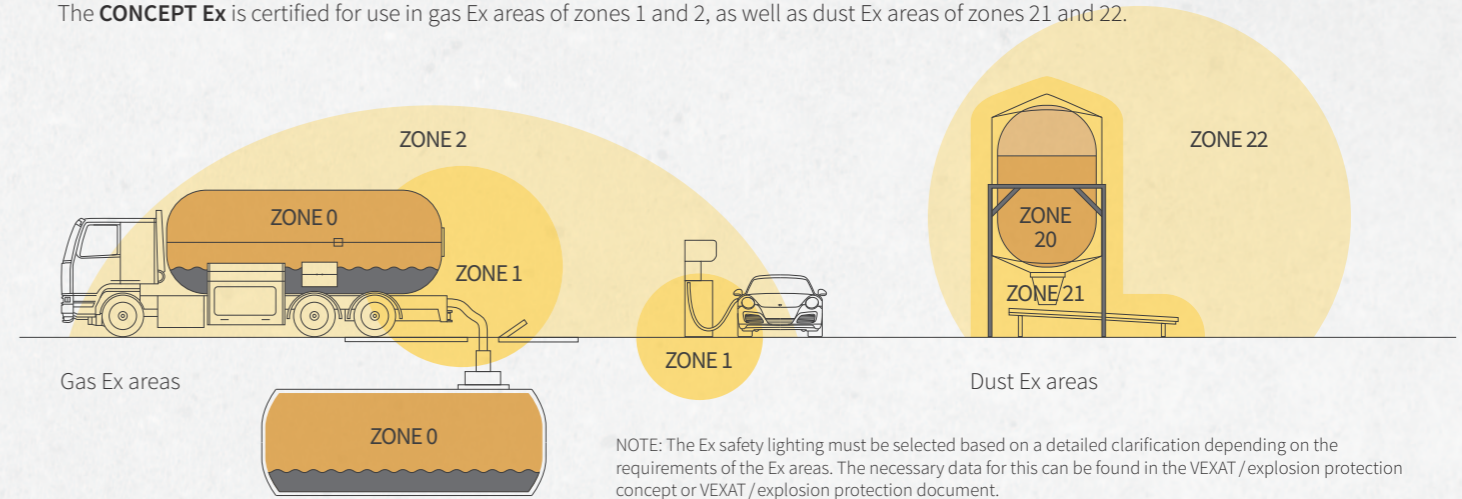
- Oxygen
- Flammable substances (gas, mist, vapour or dust)
- Ignition source (hot surface, sparks, etc.)



The **risk** of an explosion is based on the probability of the simultaneous occurrence of oxygen and flammable substances over a certain period of time - represented by the zoning.

Ex-zone allocation

The following illustrations show examples of Ex zone allocation. The **INDUSTRY Ex X32** is certified for use in gas Ex areas of zone 2, as well as dust Ex areas of zones 22. The **CONCEPT Ex** is certified for use in gas Ex areas of zones 1 and 2, as well as dust Ex areas of zones 21 and 22.



Temperature classification and substance groups

Flammable substances have substance-specific properties with regard to ignition temperatures and ignition energies. There is a classification into temperature classes (gases and vapours), as well as maximum device surface temperatures (dusts). In addition, there is a classification into substance subgroups, whereby IIC and IIIC have the highest equipment requirements.

Gases and vapours			Ignition temperatures of the assigned gases/vapours	Temperature class	Lights
IIA ■■	IIB ■■	IIC ■■			
Ammonia, methane, ethane, propane	Town gas, acrylic nitrite	Hydrogen	> 450°C	T1	■■■
Ethyl alcohol, cyclohexane, n-butane	Ethylene, ethyl oxide	Ethyne	> 300°C ≤ 450°C	T2	■■■
Benzene, jet fuel, n-hexane	Ethylene glycol, hydrogen sulphide	-	> 200°C ≤ 300°C	T3	■■■
Acetaldehyde	Ethyl ether	-	> 135°C ≤ 200°C	T4	■■■
-	-	-	> 100°C ≤ 135°C	T5	■■■
-	-	Carbon disulphide	> 85°C ≤ 100°C	T6	■■■

IIIA ■■	IIIB ■■	IIIC ■■
Flammable lint	Non-conductive dusts	Conductive dusts
e.g. Cotton lint	e.g. Wood dust	e.g. Metal dust

The max. surface temperature of luminaires for the dust Ex area depends on whether a dust cloud or dust deposits are present and must be specified by the operator.

Ex labelling

The permissible area of application of the Ex escape sign and emergency luminaires is defined by the marking per directive 2014/34/EU and EN standards, as well as per the IECEx system based on ISO or IEC standards.

CONCEPT Ex labelling:

- II 2G Ex db op is IIC T6 Gb (Ex-labelling for potentially explosive gas atmospheres)
- II 2D Ex op is tb IIIC T85°C Db (Ex-labelling for potentially explosive dust atmospheres)

INDUSTRY Ex X32 labelling:

- II 3G Ex ec IIC T4 Gc (Ex-labelling for potentially explosive gas atmospheres)
- II 3D Ex tc IIIC T80°C Dc (Ex-labelling for potentially explosive dust atmospheres)

Overview of Ex areas per labelling

The tabular representation shows the **minimum requirements** for the devices or luminaires for the zone listing cited.

Flammable materials	Duration of occurrence of an explosive atmosphere	Zones	Minimum requirement for the device				Protection level
			Directive 2014/34/EU		Standard EN IEC 60079-0		
			Equipment group	Device category	Group	Equipment protection level EPL	
Gas, mist, vapour	Continuous over extended periods or frequent	Zone 0	II	1G	II	Ga	Very high
	Occasional	Zone 1 ■	II	2G	II	Gb	High
	Rare, and then only for a short period	Zone 2 ■■	II	3G	II	Gc	Increased
Dust	Continuous over extended periods or frequent	Zone 20	II	1D	III	Da	Very high
	Occasional	Zone 21 ■	II	2D	III	Db	High
	Rare, and then only for a short period	Zone 22 ■■	II	3D	III	Dc	Increased
Methane, Coal dust		Mining	I	M1	I	Ma	Very high
		Mining	I	M2	I	Mb	High

Ignition protection types

A variety of ignition protection types can be used to **prevent an explosion**. The ignition protection types used for the Concept Ex and INDUSTRY Ex X32 are listed below.

CONCEPT Ex	INDUSTRY Ex X32	Type of ignition protection	Description	Standard
Symbols	Symbols			
db	-	Pressure resistant encapsulation (d)	The protective principle describes the safe isolation of explosions inside the luminaire from the surrounding potentially explosive atmosphere.	IEC 60079-1
-	ec	Increased safety (e)	The protection principle describes the use of additional measures to prevent ignition sources such as sparks or electric arcs.	IEC 60079-7
-	nC	Non-ignitable components (n)	The protection principle describes the use of safe components.	IEC 60079-15
op is	-	Intrinsic safety with regard to optical radiation (op is)	The protection principle describes the use of radiant energy limited to a safe extent.	IEC 60079-28
tb	tc	Protection by housing (t)	The protective principle prevents dust from dust explosion areas from entering the luminaire and limits the surface temperature.	IEC 60079-31

Legend: ■ Requirements covered by CONCEPT Ex
■ Requirements covered by INDUSTRY Ex X32

AREAS OF APPLICATION

Providing that the listed luminaires designed for more stringent requirements are used properly, the 50,000 hour warranty applies in accordance with the din guarantee and its warranty terms & conditions, with the exception of areas and applications where the luminaires are subjected to chemical action.

IMPORTANT: This list is intended as a guide, indicating which luminaires are appropriate for the fields of application itemised above. The assigned icons in the application overview point to additional possible special features, the impact of which needs to be considered carefully in all cases during the selection and installation of luminaires and at the stage when technical details are being established.

LUMINAIRES FOR MORE STRINGENT REQUIREMENTS

TUBE 2
Polycarbonate |

TUBE-264
Polycarbonate |

SHAPE SL
V4A powder-coated, PMMA |

FLAP SL
Aluminium powder-coated |

POLLER 1050 E
Aluminium powder-coated |

POLLER 1200 R
V2A powder-coated |

STRING 2 spots
Polycarbonate, with accessory* |

Eye PRO 3
Aluminium, PMMA |

CONCEPT 2
Polycarbonate, with accessory* |

BASIC 2
Polycarbonate, incl. IP65 Set* |

INDUSTRY X32
Polycarbonate, incl. IP65 Set*, incl. IK09 Set** |

INDUSTRY X32 FSU
Polycarbonate, incl. IP65 Set*, incl. IK09 Set** |

INDUSTRY RL80
Polycarbonate, Aquamid 66G30 |

INDUSTRY E35
V4A, PMMA |

INDUSTRY E35
V4A, ESG glass |

INDUSTRY FSU
V4A, ESG glass |

BASIC 2 Ice
Low temperature-compatible polycarbonate |

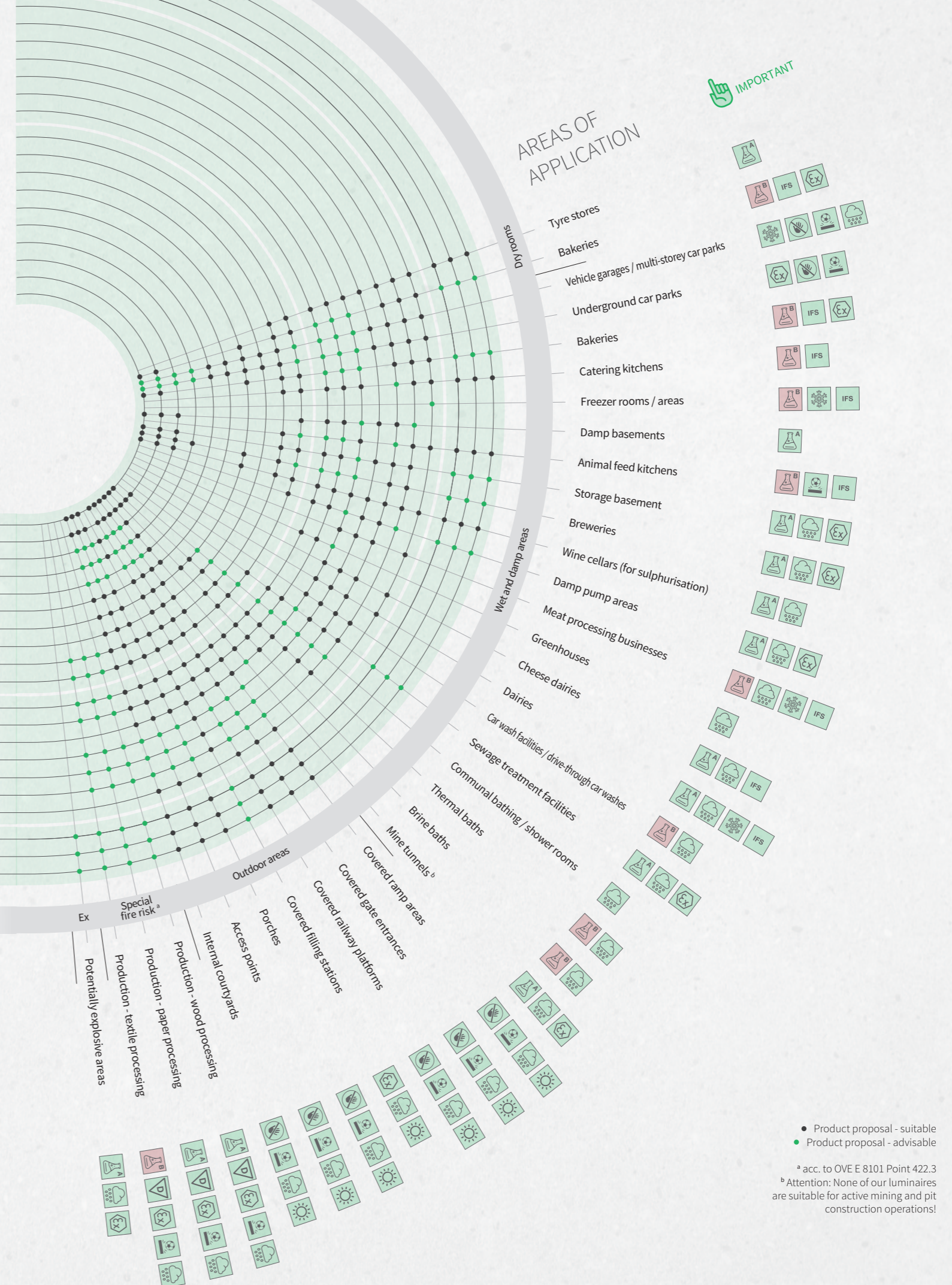
CONCEPT Ex
Aluminium, borosilicate glass tube |

INDUSTRY Ex X32
Polycarbonate |

INDUSTRY Ex X32 FSU
Polycarbonate |

LUMINAIRES

- TUBE 2
- TUBE-264
- SHAPE SL
- FLAP SL
- POLLER 1050 E
- POLLER 1200 R
- STRING 2 SPOTS IP65
- Eye PRO 3 IP65
- CONCEPT 2
- BASIC 2 IP65
- INDUSTRY X32 IP65
- INDUSTRY X32 FSU IP65
- INDUSTRY RL80
- INDUSTRY E35 PMMA
- INDUSTRY E35 ESG
- INDUSTRY FSU
- BASIC 2 ICE
- CONCEPT Ex
- INDUSTRY Ex X32
- INDUSTRY Ex X32 FSU



IMPORTANT

● Product proposal - suitable
● Product proposal - advisable
* acc. to OVE E 8101 Point 422.3
b Attention: None of our luminaires are suitable for active mining and pit construction operations!

NOTES ON FIELDS OF APPLICATION



The symbol points to possible areas with **extremely low ambient temperatures** below -15 °C.



Additional **protection from climate factors** may be required in areas where large volumes of water are encountered, for specialist cleaning activities or for high ambient humidity, e.g. in outdoor areas, in the food industry, in basements or in bathrooms.



This symbol indicates **areas at particular risk of fire** as defined in OVE E 8101 Point 422.3. These ambient conditions typically occur in paper-making plants or in the wood-processing industry and they require all electrical equipment to satisfy specific requirements.

In these areas, only luminaires with limited surface temperatures in acc. with EN 60598-2-24 can be used. These are designated by the letter D.



These symbols indicate that special protection is needed to protect the luminaires being used against external mechanical factors. Fields of application can include sports centres, railway stations or industrial buildings.



Mechanical protection is divided into three categories:



1. **The IK impact resistance grade** is a measure of the resistance of enclosures of electrical equipment to mechanical stress.

2. **Ball impact safety** D1 und W2 for luminaires in sports facilities in acc. with DIN 18032-3:2023-12.

3. **Protection against vandalism.**



This symbol relates to **applications involving potentially explosive areas**. Explosion protection makes a general distinction between explosive atmospheres involving gas or dust. These areas are divided into three zones depending on the frequency and duration of the occurrence of an explosive atmosphere. The selection of equipment in Ex areas must be stipulated by senior company management.



This symbol refers to **chemical factors** associated with aggressive gases, vapours, liquids, cleaning agents and other chemicals. The use of luminaires in these areas usually requires specialist clarification in respect of protection, applicable measures and the selection of materials.



This symbol refers to **UV factors**. The materials used must be UV-stabilised or UV-resistant.



This symbol relates to **particular requirements in the food sector** in accordance with EU Regulation (EC) No. 852/2004, HACCP - Hazard Analysis and Critical Control Points, IFS - International Featured Standard Food and BRC - Global Standard for Food Safety.

EVERYTHING TAKEN INTO ACCOUNT?

In the areas of application listed here, **additional requirements** such as chemical resistance, resistance to low temperatures or multiple combinations of requirements may occur. Please bear in mind that **a specialist solution may possibly be needed** involving consultation with your din contact partner.

NOTE: This presentation of areas of application and the assignment of luminaires only constitutes an excerpt and provides no assurance of completeness. Subject to technical modifications.

NOTES ON THE din LUMINAIRE PORTFOLIO



With BASIC 2 Ice you have a din luminaire for applications **down to -30 °C**. In this context, pay attention to correct installation!



For installation in areas subject to exceptional weather conditions and where ambient humidity is > 80%, you can choose our luminaires with **a high protection category** a ventilation element and with additional accessories such as a rain canopy, available as an additional measure and which must be used in these cases. The **ventilation element** prevents water vapour from condensing inside the luminaire and is installed as standard in INDUSTRY E35 and INDUSTRY FSU.

With extremely low temperatures and climate-related temperature fluctuations, a continuous lighting option may be required. For areas subject to almost 100% humidity levels (e.g. greenhouses), we also recommend a protective coating for the electronic components. Your din contact will be happy to provide you with details.



In accordance with EN 60598-2-24, our designated luminaires are suitable for use in environments that are defined as follows in IEC 60364-4-42 or OVE E 8101 Part 422.3:

- In which no unusual deposits of dust are expected.
- In which the deposition on the luminaire of non-conductive and conductive dust is expected.

Note: Accessory parts that are detrimental to degree of protection IP65 must not be used due to the requirement for **D designations in acc. with EN 60598-2-24**.



To protect against external mechanical factors, you have the following options:



1. Luminaires with high levels of IK impact resistance
2. Combination of luminaires with a ball protection basket or a ball-proof cover.



3. Vandalism-proof screws available on request from your din contact person.



The luminaires with explosion-protection CONCEPT Ex and INDUSTRY Ex X32 bear the following markings (according to **Directive 2014/34/EU**):

CONCEPT Ex:
II 2G Ex db op is IIC T6 Gb
(for use in Zones 1 and 2)
II 2D Ex op is tb IIIC T85 °C Db
(for use in Zones 21 and 22)

INDUSTRY Ex X32:
II 3G Ex ec IIC T4 Gc
(for use in Zone 2)
II 3D Ex tc IIIC T80 °C Dc
(for use in Zone 22)



It is exceptionally difficult to make a definitive statement about the use of luminaires in areas that are subject to chemical factors. The influence of chemical substances on the materials of the luminaires and the installed components depends on many factors such as material composition, concentration, exposure time, humidity and the level of ambient temperatures. Even after careful consultation of individual cases, we can only provide a conditional estimate on the use of our luminaires in these areas. It is not possible to provide a 50,000 hour warranty for these applications, so they are exempt from this form of guarantee.

^A Protective measures are absolutely essential for chemical factors in the ambient air. Separate enquiries must be submitted for this kind of specialist design.

^B For chemical factors associated with cleaning agents and the like, specific clarification with your din contact partner is needed without exception. Due account needs to be taken here to safety data sheets, material compatibility lists and to manufacturer-specific requirements.



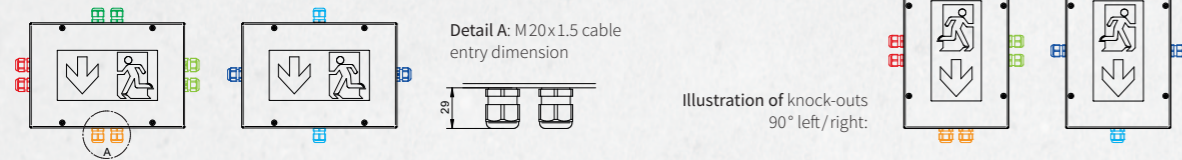
For applications subject to UV radiation, we can provide you with luminaires made of UV-stabilised polycarbonate, UV-resistant PMMA, aluminium and stainless steel.



Compliance with requirements in accordance with the food regulations listed shall be considered separately on a project-specific basis.

INDUSTRY CABLE GLANDS

The following cable entry variants are available for selection.



Options to choose from:

- 2x cable entry top centre
- 2x cable entry left centre
- 1x cable entry left centre / 1x right centre
- 2x cable entry right centre
- 2x cable entry bottom centre
- 1x cable entry top centre / 1x bottom centre

EN ISO 7010 - PICTOGRAMS

Pictograms and arrows available as standard *



All FSU pictograms are available with males or wheelchair symbols as an option.

ISO 7010 pictograms available as standard



Customised solutions upon request. Let us know your project requirements and we will find the right solution for you.



* The illustrations represent an excerpt of the possible arrow directions and mounting variants.
** Not available for Laser Picto luminaires.

COMPOSITION OF THE ITEM NUMBERS

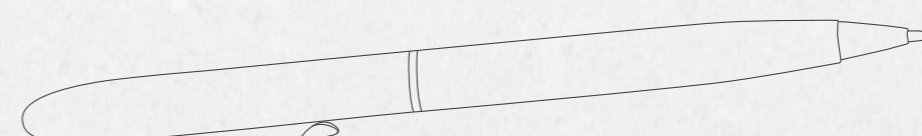
Explained using the example CONCEPT 2 SL 5

9020 0x 5003
|
Type of monitoring
3 = ILS
5 = Imax350
9 = PLC24

EXPLANATION OF SYMBOLS

The following symbols have been used in the catalogue and have the following meaning:

- XXm** **Recognition distance:** The recognition distance in metres is the standardised distance at which a person is still clearly able to recognise a backlit escape route sign in accordance with EN 1838.
- IP XX** **Protection type IP XX:** The protection type provides information on the safe operation of the light under different ambient conditions per EN 60529.
- XX to +XX °C** **Temperature range:** The light is suitable for temperatures from -XX°C to +XX°C.
- 50,000h** **50,000h full guarantee:** din-Sicherheitstechnik GmbH & Co KG guarantees a service life of 5.7 years based on the guarantee and warranty conditions.
- DIN 4844** **DIN 4844:** Increased pictogram lighting in accordance with DIN 4844 is available.
- CE** **CE mark:** The products comply with the requirements of the relevant EU regulations. This is confirmed with the EC Declaration of Conformity.
- HALOGEN FREE** **Halogen free:** The materials used in the light are free from halogens, per IEC 61249-2-21.
- VLC** **Visible Light Communication (VLC):** Data exchange via bidirectional luminaire communication.
- Dimmer** **Dimmer function (PLC24):** The dimming function is activated directly via the supplying emergency light unit. In emergency mode, the light output is automatically increased to 100%.
- RAL COLOURS** **RAL colours:** On request, various components are available in all RAL colours.
- X** **Item number:** Item numbers with x in the colour blue indicate the availability of different technologies.





THE NEW EMERGENCY LIGHTING

More senses. More scenarios.
Safety at the cutting edge of technology and research.

The FSU portfolio (escape route scenario switching) expands the spectrum of classic emergency lighting components and ranges from simple, ground-level systems to directionally variable (adaptive) escape route guidance, which can also be acoustically supported. These measures make a decisive contribution to increasing personal safety in buildings.

Building extensions are not uncommon, particularly in industrial halls. Normally, this would mean expensive construction measures (such as an escape tunnel). With the INDUSTRY X32 FSU you have a simple and flexible solution.

So, the FSU is not only the future,
but rather THE NEW EMERGENCY LIGHT.



Learn more about
fsu.din-notlicht.com

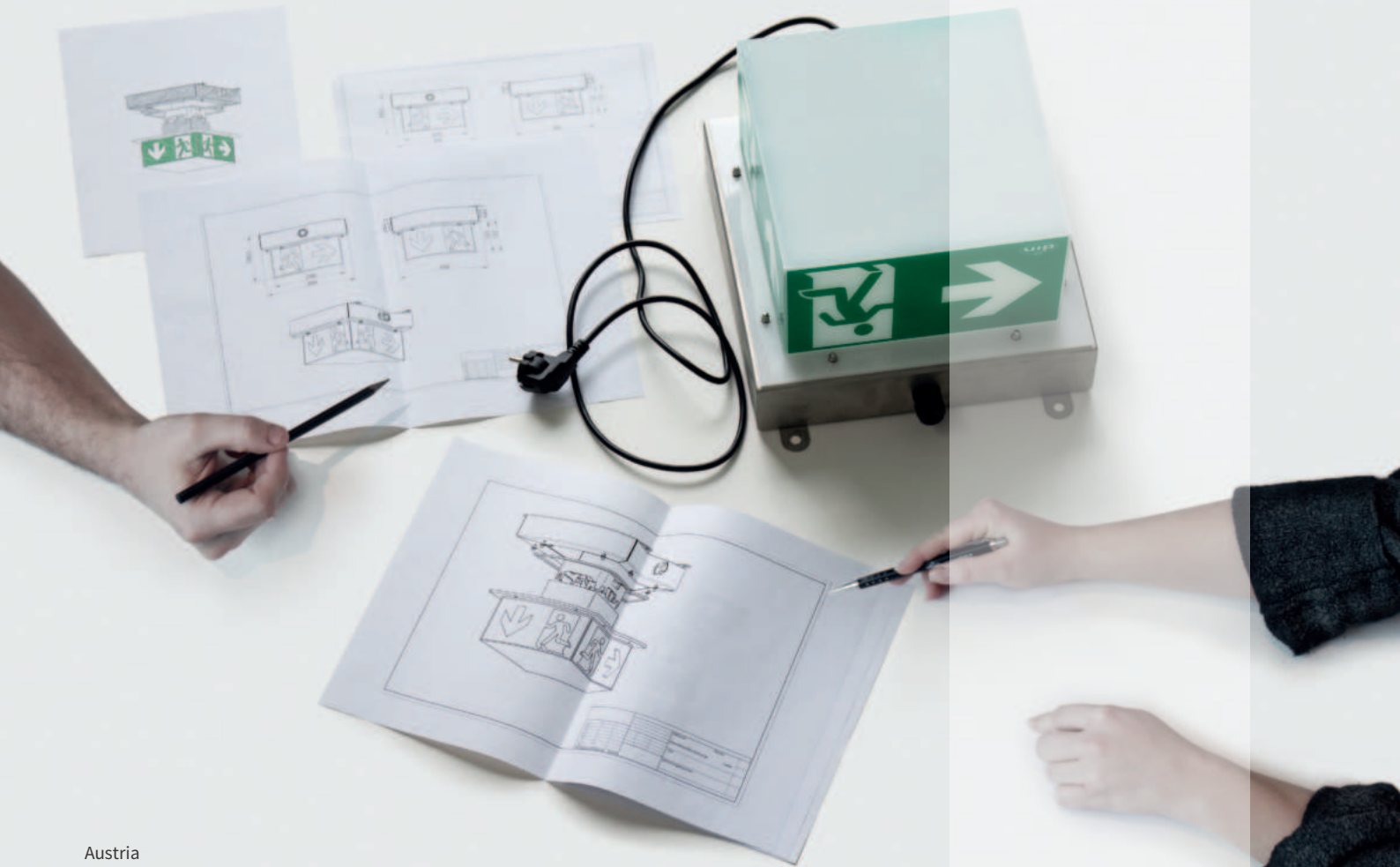
DID YOU KNOW?

For 40m escape route, an escapee needs approx. 1 minute.
So in an emergency, every second counts. With the FSU -
our directionally variable (adaptive) escape route guidance
- **30% faster escape is possible.**



WE DEVELOP THE SOLUTIONS OF TOMORROW FOR YOU

We incorporate customers' wishes, continuously develop our portfolio and also supply solutions for special applications. For more information on our products, contact your din contact person or visit us at din-notlicht.com/leuchten.



Austria

din - Dietmar Nocker Sicherheitstechnik GmbH & Co KG
Kotzinastraße 5-7, 4030 Linz, Austria
Tel.: +43 732 7708 11-0
office@din-notlicht.at

Germany

din - Dietmar Nocker Sicherheitstechnik Deutschland GmbH
Semmelweisstraße 8, 82152 Planegg, Germany
Tel.: +49 89 904 22648
officemuc@din-notlicht.de

Italy

din - Sicherheitstechnik Italia S.r.l.
Via Giambellino 121b, 20146 Milano, Italy
Tel.: +39 02 8942 0811
office@din-notlicht.it

Slovenia

din - Dietmar Nocker Sicherheitstechnik d.o.o.
Zagrebška cesta 90, 2000 Maribor, Slovenia
Tel.: +386 2 421 3190
office@din-notlicht.si

www.din-notlicht.com

