

# Ex-Fluorescent emergency light fitting with metal housing

AB 12...Ni

(Zone 1, 2, 21, 22)

## fluorescent emergency light fitting with metal housing

With its flameproof housing made of copper free aluminium (Cu < 0.1 %), high degree of protection IP67 and protective tube made of borosilicate glass with a high mechanical and thermal stability, this luminaire is the ideal solution for harsh and hazardous environments.

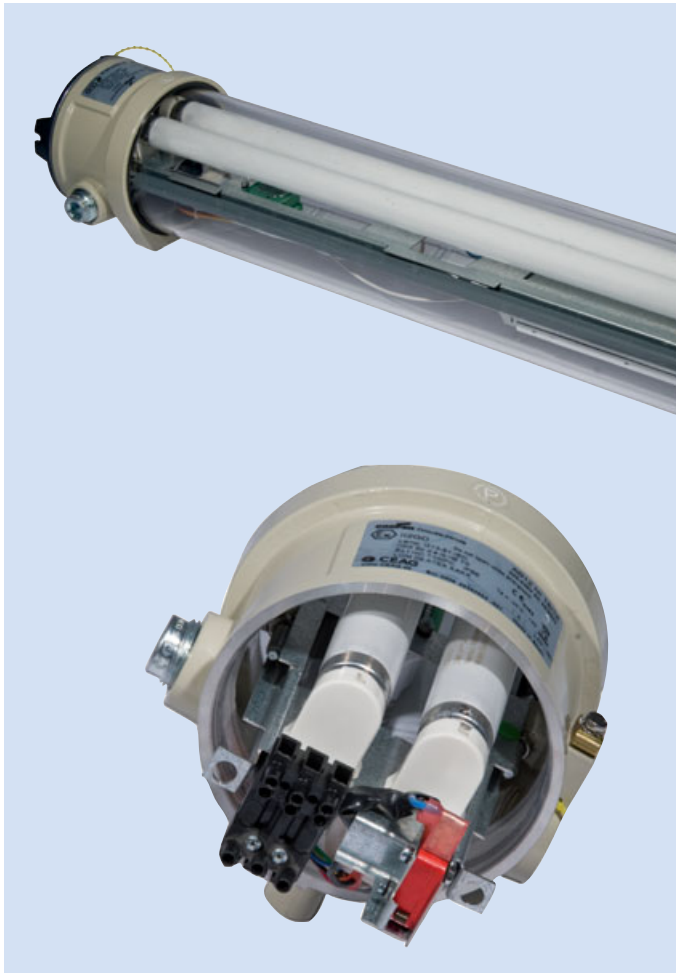
## More safety with compact electronics

Thanks to its EVG with charging unit and its micro-electronics for an automatic switchover to the emergency lighting mode and battery monitoring, the AB 12 .. NI emergency light luminaire provides a reliable safety and reduced maintenance costs. In the event of a power failure, the luminaire switches over automatically to the emergency lighting mode, whereby only one of the two lamps is lit. You can chose between two versions with 1.5 h

or 3 h emergency operation. The luminaires are equipped with an electronic ballast, which has a reliable EOL circuit. Thus, the lamps are monitored for their correct function and shut down safely in the event of a malfunction at the end of their service life. The charge/discharge and lighting functions are continuously monitored and displayed via an LED-indication. All components are mounted compactly on a removable carrier plate inside the Ex-d housing.

## The luminaire for all types of applications

The easy-to-open threaded cover, the large terminal compartment and the lamp assembly on a guide carriage facilitate servicing. An optional external reflector ensures an application-specific light distribution. The optional protective wire guard made of stainless steel provides added safety.



## Features

- Robust Ex-d housing
- Two-channel EVG with EOL monitoring
- Operating status indication via LED
- Easy opening due to screw cover on end
- Large terminal compartment
- High degree of protection IP67

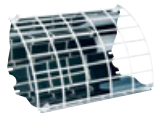
## Ordering details



Type	Emergency light duration	Terminals	Through-wiring single-ended	Entry / thread	Threaded plug	Order No.
AB 12 Ni 18/18 1.5h (2 x 18 W)	1.5 h	1 x 3	x	2 x 3/4" NPT, metal thread	1 x 3/4" Ex-d	<b>NOR 000 005 060 302</b>
AB 12 Ni 36/36 1.5h (2 x 36 W)	1.5 h	1 x 3	x	2 x 3/4" NPT, metal thread	1 x 3/4" Ex-d	<b>NOR 000 005 060 310</b>
AB 12 Ni 18/18 3h (2 x 18 W)	3 h	1 x 3	x	2 x 3/4" NPT, metal thread	1 x 3/4" Ex-d	<b>NOR 000 005 060 318</b>
AB 12 Ni 36/36 3h (2 x 36 W)	3 h	1 x 3	x	2 x 3/4" NPT, metal thread	1 x 3/4" Ex-d	<b>NOR 000 005 060 348</b>
AB 12 Ni 18/18 1.5h (2 x 18 W)	1.5 h	1 x 3	x	2 x M25, metal thread	1 x M25 Ex-d	<b>NOR 000 005 060 580</b>
AB 12 Ni 36/36 1.5h (2 x 36 W)	1.5 h	1 x 3	x	2 x M25, metal thread	1 x M25 Ex-d	<b>NOR 000 005 060 582</b>
AB 12 Ni 18/18 3h (2 x 18 W)	3 h	1 x 3	x	2 x M25, metal thread	1 x M25 Ex-d	<b>NOR 000 005 060 581</b>
AB 12 Ni 36/36 3h (2 x 36 W)	3 h	1 x 3	x	2 x M25, metal thread	1 x M25 Ex-d	<b>NOR 000 005 060 583</b>

Scope of delivery without lamp and fixing accessories  
Metal cable glands see catalogue part 2: 2.3.12 ff

## Accessories

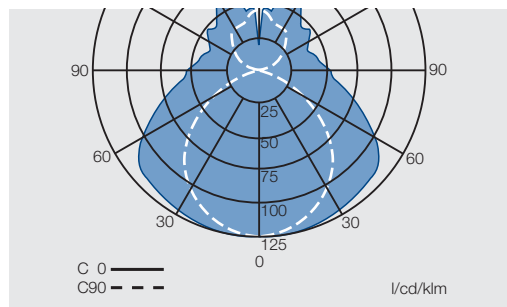


Type	Content	Application	Order No.
Reflector RAB 220	Reflector, AISI 304	for AB 12 Ni 18/18	<b>NOR 003 045 060 403</b>
Reflector RAB 240	Reflector, AISI 304	for AB 12 Ni 36/36	<b>NOR 003 045 060 411</b>
Reflector GRAB 220	Reflector + wire guard ANSI 304	for AB 12 Ni 18/18	<b>NOR 003 045 060 479</b>
Reflector GRAB 240	Reflector + wire guard ANSI 304	for AB 12 Ni 36/36	<b>NOR 003 045 060 487</b>
Reflector RAB 220	Reflector, AISI 316	for AB 12 Ni 18/18	<b>NOR 003 165 060 403</b>
Reflector RAB 240	Reflector, AISI 316	for AB 12 Ni 36/36	<b>NOR 003 165 060 411</b>
Reflector GRAB 220	Reflector + wire guard ANSI 316	for AB 12 Ni 18/18	<b>NOR 003 165 060 479</b>
Reflector GRAB 240	Reflector + wire guard ANSI 316	for AB 12 Ni 36/36	<b>NOR 003 165 060 487</b>

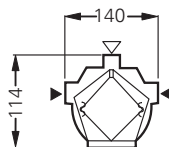
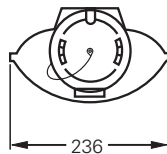
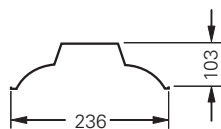
## Dimension drawing / Polar curve

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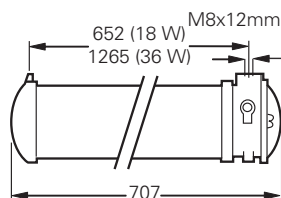
### Polar curve AB 12...Ni



**AB 12...**



- ▷ optional entries, on request
- ▼ entries



Dimensions in mm



2

## Technical data

	AB 12 Ni 18/18	AB 12 Ni 36/36
EC-Type Examination Certificate	LOM 09 ATEX 2062X	LOM 09 ATEX 2062X
Marking accd. to 94/9/EC	<div>II 2 G Ex d e ib IIB T5/T6</div> <div>II 2 D Ex tD A21 IP67 T100°C</div>	<div>II 2 G Ex d e ib IIB T5/T6</div> <div>II 2 D Ex tD A21 IP67 T100°C</div>
Permissible ambient temperature	-20 °C up to +40 °C (T6) -20 °C up to +55 °C (T5) (specified data -5 °C up to +30 °C)	-20 °C up to +40 °C (T6) -20 °C up to +55 °C (T5) (specified data -5 °C up to +30 °C)
Battery	6 V / 4 Ah NiCd	6 V / 4 Ah NiCd
Rated voltage	220 - 240 V AC	220 - 240 V AC
Rated current	0.17 A	0.33 A
Frequency	50 - 60 Hz	50 - 60 Hz
Charging duration	≥ 14 h	≥ 14 h
Power factor cos φ	≥ 0.9	≥ 0.9
Circuit	EVG with emergency lighting supply	EVG with emergency lighting supply
Protection class	I	I
Lamp / Illuminant	2 x T26 / 18 W	2 x T26 / 36 W
Rated luminous flux	2700 lm <sup>1)</sup>	6700 lm <sup>1)</sup>
Lamp cap	G13 accd. to IEC 60061-1	G13 accd. to IEC 60061-1
Light output ratio	73%	73%
Luminous flux in emergency operation (1.5 h, one lamp)	675 lm <sup>1)</sup>	1072 lm <sup>1)</sup>
Luminous flux in emergency operation (3 h, one lamp)	392 lm <sup>1)</sup>	392 lm <sup>1)</sup>
Dimensions (L x W x H)	707 x 140 x 144 mm	1320 x 140 x 144 mm
Connecting terminals	L1, N and PE: 2 x 2.5 mm <sup>2</sup> / PE ext. 2 x 6 mm <sup>2</sup>	L1, N and PE: 2 x 2.5 mm <sup>2</sup> / PE ext. 2 x 6 mm <sup>2</sup>
Enclosure colour	grey	grey
Enclosure material	copper-free aluminium with powder coating	copper-free aluminium with powder coating
Weight	7 kg	12 kg
Cable glands / gland plates / enclosure drilling	direct entry: 2 x 3/4" NPT or 2 x M 25 1 x Ex-d blanking plug 3/4" or M25	direct entry: 2 x 3/4" NPT or 2 x M 25 1 x Ex-d blanking plug 3/4" or M25
Degree of protection accd. to EN 60529	IP67	IP67
Protective cover / protective bowl	borosilicate glass	borosilicate glass

<sup>1)</sup> depends on used lamps