








Ordering details

Type	Lamp/ Illuminant	Rated luminous flux 1)	Weight	Metal thread	Plug	Dust cap	Order No.
AB 80							
 AB 80	IGA 60 W, 100 W / TC-DSE 11 W	710 lm / 1360 lm / 660 lm	6.6 kg	2 x 3/4" NPT	1 x 3/4" screw plug		NOR 000 005 120 124
AB 80	IGA 60 W, 100 W / TC-DSE 11 W	710 lm	6.6 kg	2 x M25	1 x M25 screw plug	x	NOR 000 005 120 123
AB05 LED including LED-module							
 AB05 LED	LED module 22 W	2000 lm	7.0 kg	1 x M20	-	x	AB05 251 011 0301
AB05 LED	LED module 22 W	2000 lm	7.0 kg	1 x M25	-	x	AB05 251 021 0301
AB05 LED	LED module 22 W	2000 lm	7.0 kg	2 x M20	1 x M20 Ex-d	x	AB05 251 111 0301
AB05 LED	LED module 22 W	2000 lm	7.0 kg	2 x M25	-	x	AB05 251 221 0301
AB05 Ex-e							
 AB05 Ex-e	IGA 60 W	710 lm	5.9 kg	1 x M20	-	x	AB05 531 011 0001
AB05 Ex-e	IGA 60 W	710 lm	5.9 kg	1 x M25	-	x	AB05 531 021 0001
AB05 Ex-e	IGA 60 W	710 lm	5.9 kg	2 x M25	1 x M25 Ex-d	x	AB05 531 111 0001
AB05 Ex-e	IGA 60 W	710 lm	5.9 kg	1 x M25	-	x	AB05 531 221 0001
AB05 Ex nR							
 AB05 Ex nR	HSE 70 W	5600 lm	5.4 kg	1 x M20	-	x	AB05 611 011 0001
AB05 Ex nR	HSE 70 W	5600 lm	6.9 kg	1 x M25	-	x	AB05 611 021 0002
AB05 Ex nR	HSE 70 W	5600 lm	5.4 kg	2 x M20	1 x M20 Ex-d	x	AB05 611 111 0001
AB05 Ex nR	HSE 70 W	5600 lm	5.4 kg	2 x M25	1 x M25 Ex-d	x	AB05 611 221 0001
AB05 Ex nR	HME 80 W	3800 lm	6.9 kg	2 x M25	1 x M25 Ex-d	x	AB05 621 221 0001
AB05 Ex nR	IGA 200 W	3100 lm	6.9 kg	1 x M25	-	x	AB05 631 021 0001
AB05 Ex-d IIB +H2							
 AB05 Ex-d IIB +H2	HSE 70 W	5600 lm	6.9 kg	1 x M20	-	x	AB05 111 011 0001
AB05 Ex-d IIB +H2	HSE 70 W	5600 lm	6.9 kg	1 x NPT 1/2"	-	x	AB05 111 031 0001
AB05 Ex-d IIB							
AB05 Ex-d IIB	HSE 70 W	5600 lm	6.9 kg	1 x M20	-	x	AB05 211 011 0001
AB05 Ex-d IIB	HSE 70 W	5600 lm	6.9 kg	1 x M20	1 x M20 Ex-d	x	AB05 211 111 0001

¹⁾ depends on used lamps

Scope of delivery without lamp and fixing accessories, if not stated otherwise.
Metal cable glands see catalogue part 2: 2.3.12 ff

Ordering details

Type	Lamp/ Illuminant	Rated luminous flux ¹⁾	Weight	Metal thread	Plug	Dust cap	Order No.
AB 12 NAV 70 ...							
	AB 12 NAV 70, IIC -20 °C up to +40 °C	HSE 70 W	5600 lm	5.3 kg	2 x 3/4" NPT	1 x 3/4" Ex-d	x NOR 000 005 060 070
	AB 12 NAV 70, IIB -45 °C up to +55 °C	HSE 70 W	5600 lm	5.3 kg	2 x 3/4" NPT	1 x 3/4" Ex-d	x NOR 000 005 060 072
AB 12 NAV 70 Arctic ...							
	AB 12 NAV 70 Arctic IIC, -50 °C up to +40 °C	HSE 70 W	5600 lm	5.6 kg	2 x 3/4" NPT	1 x 3/4" Ex-d	x 1 1750 000 353
	AB 12 NAV 70 Arctic IIC, -50 °C up to +40 °C	HSE 70 W	5600 lm	5.6 kg	2 x M25	1 x M25 Ex-d	x 1 1750 000 354

¹⁾ depends on used lamps

Scope of delivery without lamp and fixing accessories, if not stated otherwise.
Metal cable glands see catalogue part 2: 2.3.12 ff

Accessories

Type	Content	Application	OU	Order No.
GAB 80	Wire guard, galvanized	AB 80	1	NOR 000 005 120 439
Lamp HSE 70 W	High pressure sodium lamp 70 W E27	AB 05, AB 12 NAV 70	1	3 2475 900 010
D92	Ceiling mounting bracket incl. screws and polyamide washer - Stainless steel (2 pcs.)	AB 12 NAV 70	1	2 2480 092 000
A5	Ceiling bracket hot galvanized (1 pc.)	AB 12 NAV 70	1	NOR 000 005 009 196
BFP 45	Wall bracket 45° hot galvanized (1 pc.)	AB 12 NAV 70		NOR 003 045 060 471
Reflector RAB 108	Material: AISI 304	AB 12 NAV 70	1	NOR 003 045 060 471
Reflector RAB 108	Material: AISI 304 with wire guard white	AB 12 NAV 70	1	NOR 003 045 060 819
Reflector RAB 108	Material: AISI 316	AB 12 NAV 70	1	NOR 003 165 060 471
Reflector RAB 108	Material: AISI 316 with wire guard white	AB 12 NAV 70	1	NOR 003 165 060 819

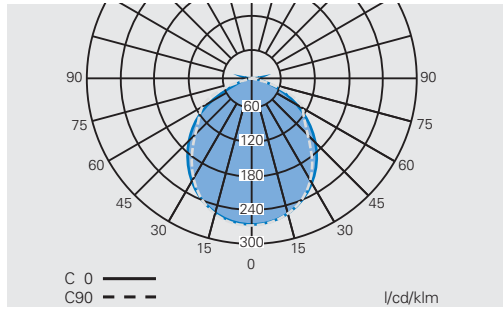
Metal cable glands see catalogue part 2, page 2.3.12 ff

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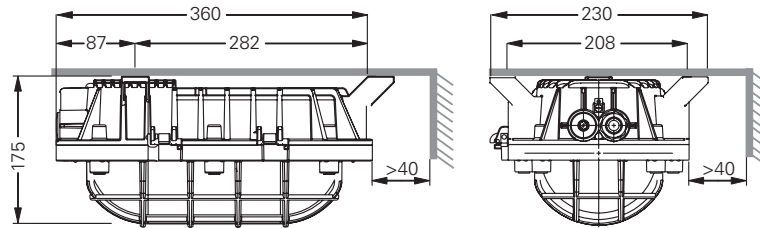
Dimension drawing / Polar curve

AB ...

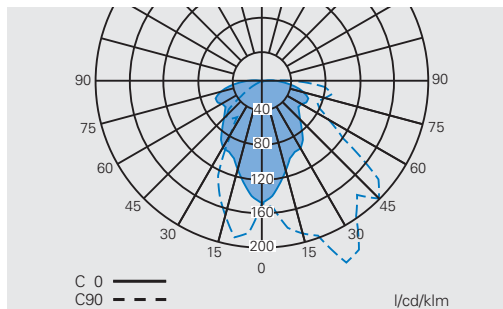
Polar curve AB 05 LED



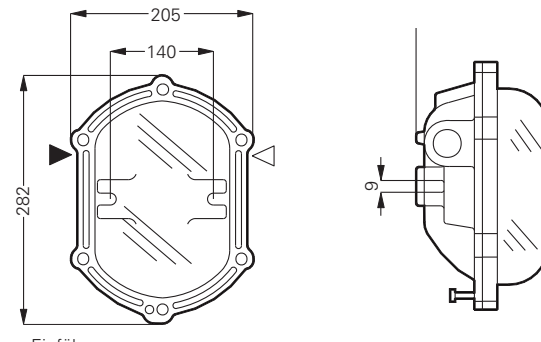
AB 05 LED



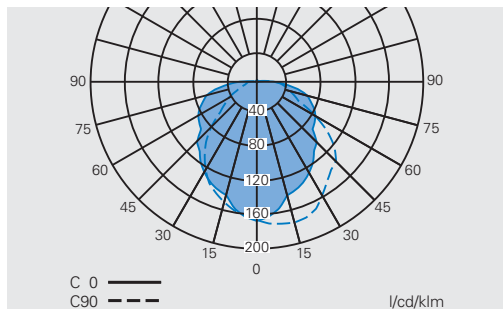
Polar curve AB 05 Ex de



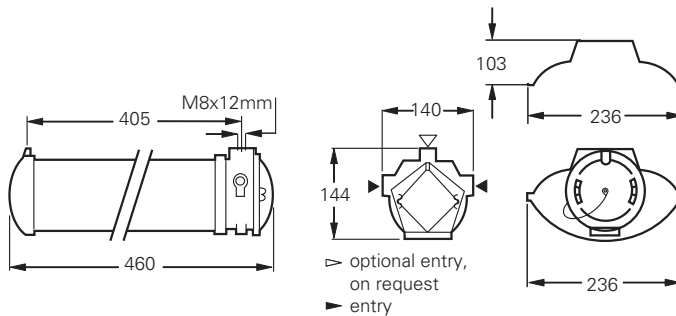
AB 80



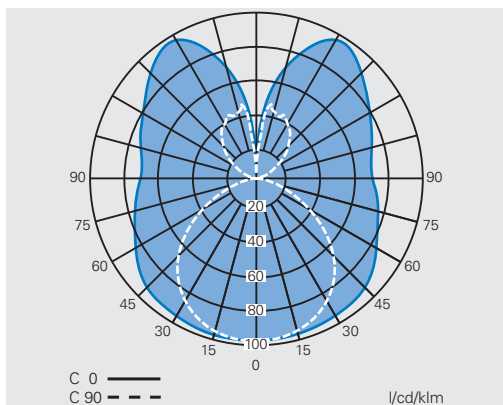
Polar curve AB 05 nR



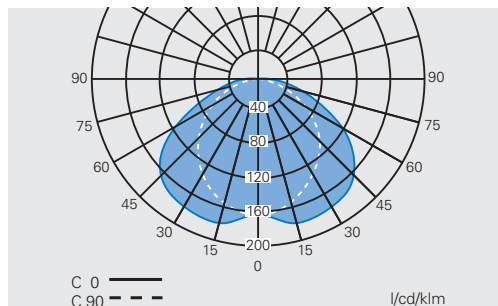
AB 12 NAV



Polar curve AB 12 NAV 70 without reflector



Polar curve AB 12 NAV 70 with reflector



Dimensions in mm

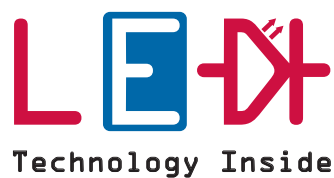


Technical data

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	AB 80	AB 05 LED
EC-Type Examination Certificate	LOM 01 ATEX 2041 X	BVS 09 ATEX E 014 X
IECEX Certificate of Conformity		IECEX BVS 09.0032X
Marking accd. to 94/9/EC	⊕ II 2 G Ex d IIB T4 (up to 100 W) / T6 (11 W)	⊕ II 2 G Ex d IIB T6 (Tu ≤ +40°C)/T5 Gb ⊕ II 2 D Ex tb IIIC T80 °C (Tu ≤ +40°C)/T100 °C Db IP66
Marking accd. to IECEx		Ex d IIB T6 (Tu ≤ +40°C)/T5 Gb Ex tb IIIC T80°C (Tu ≤ +40°C)/T100°C Db
Permissible ambient temperature	-20 °C up to +55 °C	-55 °C up to +55 °C
Rated voltage	max. 250 V	230 V AC
Frequency		50 - 60 Hz
Power consumption		approx. 23 W
Protection class	I	I
Lamp / Illuminant	E 27	LED module 22 W
Rated luminous flux	710 lm ¹⁾	2000 lm
Lamp cap		LED module
Light efficiency in operation	60 %	70 %
Dimensions (L x W x H)	282 x 205 x 150 mm	360 x 230 x 175 mm
Connecting terminals		L1, N, PE: 2 x 2.5 mm ²
Enclosure earth	2 x 6 mm ²	2 x 6 mm ²
Enclosure colour		grey
Enclosure material	cast iron	light alloy
Weight	6.6 kg	7.0 kg
Cable glands / gland plates / enclosure drilling	2 x M20/M25 x 1.5 or 2 x 3/4" NPT	1 x M20/M25 x 1.5, 2 x M20/M25 x 1.5, 1 x 3/4" NPT or 2 x 3/4" NPT
Type of mounting	ceiling/wall mounting	ceiling/wall mounting
Degree of protection accd. to EN 60529	IP55	IP66
Protective cover / protective bowl	borosilicate glass	borosilicate glass
Screw plugs	1 x 3/4" Ex-d screw plug	1 x M20/M25 or 3/4" NPT Ex-d screw plug

¹⁾ depends on used lamps



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Technical data

AB 05 Ex-e / AB 05 Ex nR



4 Technical data

	AB 05 Ex-e	AB 05 Ex nR
Type Examination Certificate		BVS 07 ATEX E 151
EC-Type Examination Certificate	BVS 07 ATEX E 152 X	
IECEX Certificate of Conformity	IECEX BVS 10.0070X	IECEX BVS 10.0071
Marking accord. to 94/9/EC	⊕ II 2 G Ex de IIC T3 ²⁾ /T2 Gb ⊕ II 2 D Ex tb IIIC T125 °C Db IP66	⊕ II 3 G nR II T4/T3 Gc ⊕ II 3 D Ex tc IIIC T100°C/ T125°C/ T140°C Dc IP66
Marking accord. to IECEx	Ex de IIC T3 ²⁾ /T2 Gb Ex tb IIIC T125 °C Db IP66	Ex nR IIC T4/T3 Gc Ex tc IIIC T100°C/T125°C/T140°C Dc IP66
Permissible ambient temperature	-20 °C up to +55 °C	-55 °C up to +55 °C
Rated voltage	max. 250 V	230 V AC
Frequency	50 - 60 Hz	50 - 60 Hz
Power factor cos φ		≥ 0.9
Protection class	I	I
Lamp / Illuminant	Incandescent lamp max. 60 W	incandescent lamp max. 200 W, high pressure sodium lamp HSE 70 W, mercury vapour HME 80 W, compact fluorescent lamp max. 23 W
Rated luminous flux	710 lm ¹⁾	¹⁾
Lamp cap	E27 accord. IEC 60238	E27 accord. IEC 60238
Light efficiency in operation	70 %	70 %
Dimensions (L x W x H)	360 x 230 x 175 mm	360 x 230 x 175 mm
Connecting terminals	L1, N, PE: 2 x 2.5 mm ²	L1, N, PE: 2 x 2.5 mm ²
Enclosure earth	2 x 6 mm ²	2 x 6 mm ²
Enclosure colour	grey	grey
Enclosure material	light alloy	light alloy
Weight	5.9 kg	6.9 kg
Cable glands / gland plates / enclosure drilling	1 x M20/M25 x 1.5, 2 x M20/M25 x 1.5, 1 x 3/4" NPT or 2 x 3/4" NPT	1 x M20/M25 x 1.5, 2 x M20/M25 x 1.5, 1 x 3/4" NPT or 2 x 3/4" NPT
Type of mounting	ceiling-/wall mounting	ceiling-/wall mounting
Degree of protection accord. to EN 60529	IP66	IP66
Protective cover / protective bowl	borosilicate glass	borosilicate glass
Screw plugs	max. 1 x M20/M25 or 3/4" NPT Ex-d screw plug	max. 1 x M20/M25 or 3/4" NPT Ex-d screw plug

¹⁾ depends on used lamps

²⁾ T3 when using a 60 W incandescent lamp accord. to EN 60064 and DIN 49810 with "T"-marking

Additional luminaire data AB 05 Ex nR

Lamp	Power	Luminous flux ¹⁾	Temperature class II 2 G	max. surface temp. II 2 D
Compact fluorescent lamp ²⁾	23 W	1450 lm	T4	T 1300 °C
High pressure sodium lamp	70 W	5600 lm	T4	T 125 °C
Mercury vapour HME	80 W	3800 lm	T4	T 125 °C
Incandescent lamp IGA	200 W	3150 lm	T3	T 140 °C

¹⁾ depends on used lamps / ²⁾ T₀ ≤ 30 °C

Technical data

AB 05 Ex-d IIB +H2 / AB 05 Ex-d IIB
AB12 NAV70 / AB 12 NAV 70 Arctic

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Technical data

	AB 05 Ex-d IIB +H2 / AB 05 Ex-d IIB	AB12 NAV70 / AB 12 NAV 70 Arctic
EC-Type Examination Certificate	PTB 08 ATEX 1001 X	LOM 02 ATEX 2013X
IECEX Certificate of Conformity		IECEX BK1 07.0008X
Marking accd. to 94/9/EC	⊕ II 2 G Ex d IIB (+H2) T4/T3 Gb / ⊕ II 2 G Ex d IIB T4/T3 Db	⊕ II 2 G Ex d IIB/IIC T3 Gb ⊕ II 2 G Ex d IIC T3 Gb ⊕ II 2 D Ex t IIIC T155 °C Db ⊕ II 2 D Ex t IIIC T155 °C Db
Marking accd. to IECEx		Ex d IIB T3 / Ex d IIC T3 Ex tD A21 IP66 T150°C
Permissible ambient temperature	-20 °C up to +55 °C	-20 °C up to +55 °C (gas-group IIC); -45 °C up to +55 °C (gas-group IIB) / -50 °C up to +40 °C (Arctic)
Rated voltage	230 V AC	230 V AC
Rated current		0.36 A
Frequency	50 - 60 Hz / 50 Hz	50 Hz
Power factor cos φ	≥ 0.9	≥ 0.9
Protection class	I	I
Lamp name	incandescent lamp up to 200 W, high pressure sodium lamp HSE 70 W, mercury vapour HME 80 W	High pressure mercury vapour HSE 70 W
Rated luminous flux	¹⁾	5600 lm ¹⁾
Lamp cap	E27 accord. IEC 60238	E27 accord. IEC 60238
Light efficiency in operation	70 %	51 %
Dimensions (L x W x H)	360 x 230 x 175 mm	460 x 140 x 144 / 530 x 140 x 144
Connecting terminals	L1, N, PE: 2 x 2.5 mm ²	L1, N, PE: 2 x 2.5 mm ² , PE: 2 x 6 mm ²
Enclosure earth	2 x 6 mm ²	2 x 6 mm ²
Enclosure colour	grey	grey
Enclosure material	light alloy	light alloy
Weight	6.9 kg	5.3 kg / 5.6 kg
Cable glands / gland plates / enclosure drilling	1 x M20/M25 x 1.5, 2 x M20/M25 x 1.5, 1 x 3/4" NPT or 2 x 3/4" NPT	2 x 3/4" thread (Ex-d) / 2 x 3/4" or 2 x M25 thread (Ex-d)
Type of mounting	ceiling-/wall mounting	ceiling-/wall mounting
Degree of protection accd. to EN 60529	IP66	IP67
Protective cover / protective bowl	borosilicate glass	borosilicate glass
Screw plugs	max. 1 x M20/M25 or 3/4" NPT Ex-d screw plug	1 x 3/4" Ex-d screw plug

¹⁾ depends on used lamps

Additional luminaire data AB 05 Ex-d IIB +H2 / AB 05 Ex-d IIB

Lamp	Power	Luminous flux ¹⁾	Permissible ambient temperature	Temperature class II 2 G
Incandescent lamp IGA	40 W	430 lm	-20 °C up to +55 °C	T4
Incandescent lamp IGA	60 W	3100 lm	-20 °C up to +55 °C	T4
Incandescent lamp IGA	100 W	1380 lm	-20 °C up to +55 °C	T4
Incandescent lamp IGA	200 W	3150 lm	-20 °C up to +55 °C	T4
High pressure sodium lamp	70 W	5600 lm	-20 °C up to +40 °C	T4
Mercury vapour HME	80 W	3800 lm	-20 °C up to +40 °C	T3

¹⁾ depends on used lamps