

Linear fittings

EVS fluorescent fitting with easy disconnect - zones 1, 2, 21 & 22



Features

- Easy disconnect without wiring to remove the gear tray
- All components mounted on hinged and removable gear tray for easy maintenance
- Double central locking for ingress protection
- Automatic switch off on opening
- Includes accessories (cable gland, plugs & fixing brackets)

EVS fluorescent fitting with easy disconnect

Approvals & certifications



Specifications

Main body constructed of glass-reinforced polyester for high impact strength

UV protected polycarbonate diffuser to resist harsh environments

Electronic ballast 220-240 Vac / 50-60Hz

EOL (End of life) the ballast prevents the lamp cap at the end of lamp life cycle from overheating

Instant start

Wiring configuration: 5 wires
3x entries M20

2x emergency versions (type: "EM" version 3h battery duration or "EMA" with 3h with automatic test and blackstart capabilities)

Standards

Approved to: EN 60079-0: General requirements
EN 60079-1: Flameproof enclosure "d"
EN 60079-31: Enclosure "t"
EN 60079-7: Increased safety "e"

ATEX Directive (2014/34/EU) LCIE 11 ATEX 3065X
IEC Ex LCI 11.0053X
Ex II 2 G
Ex de IIC T4 Gb for -40°C to +60°C or Ex de IIC T5 Gb for -40°C to +35°C
Ex II 2 D
Ex tb IIIC T85°C Db IP66 for -40°C to +60°C

EMC Directive (2014/30/EU) EN 55015: Conducted emission test and radiated emission test
EN 61547: CEM immunity
EN 61000-3-2: Harmonic current Emissions Class C
EN 61000-3-3: Limitation of voltage changes and flickers

Low voltage Directive (2014/35/EU) EN 60598-1: Luminaire general requirements and tests, including dielectric strength and isolation resistance

Glow wire test: 960°C

Operating temperature: -20°C to +55°C EVS, -10°C to +50°C EVS EM & EVS EMA

IP test: IEC 60529: IP66

Impact protection index: IEC 62262: IK10

01 Easy disconnect to remove gear tray

02 UV protected polycarbonate diffuser

01

02



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EVS fluorescent fitting with easy disconnect - zones 1, 2, 21 & 22

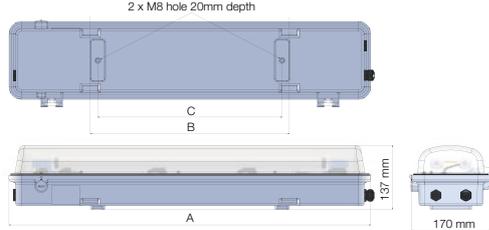


EVS 5 wires: Equipped with 1 cable gland & 2 plugs

EVS fluorescent fitting

- 5 wires
- Suitable for use in Zones 1, 2, 21, 22

Dimensions



Type For		Wiring Configuration	Light Rating W	Current A @ 230V	Dimensions mm			Weight kg
non armored cable	armored cable				A	B	C	
EVS120-0000	EVS120-D000	5 wires*	1 x 18	0.09	785	432	400	5.81
EVS140-0000	EVS140-D000	5 wires*	1 x 36	0.18	1370	900	700	8.60
EVS165-0000	EVS165-D000	5 wires*	1 x 58	0.26	1670	900	700	10.40
EVS220-0000	EVS220-D000	5 wires*	2 x 18	0.17	785	432	400	5.81
EVS240-0000	EVS240-D000	5 wires*	2 x 36	0.33	1370	900	700	8.60
EVS265-0000	EVS265-D000	5 wires*	2 x 58	0.48	1670	900	700	10.40



EVS 5 wires through: Equipped with 2 cable glands & 1 plug

EVS120-B000	EVS120-E000	5 wires through**	1 x 18	0.09	785	432	400	5.81
EVS140-B000	EVS140-E000	5 wires through**	1 x 36	0.18	1370	900	700	8.60
EVS165-B000	EVS165-E000	5 wires through**	1 x 58	0.26	1670	900	700	10.40
EVS220-B000	EVS220-E000	5 wires through**	2 x 18	0.17	785	432	400	5.81
EVS240-B000	EVS240-E000	5 wires through**	2 x 36	0.33	1370	900	700	8.60
EVS265-B000	EVS265-E000	5 wires through**	2 x 58	0.48	1670	900	700	10.40

Note. * For armored cable with 1 continuity plate. ** For armored cable with 2 continuity plates.

Technical information

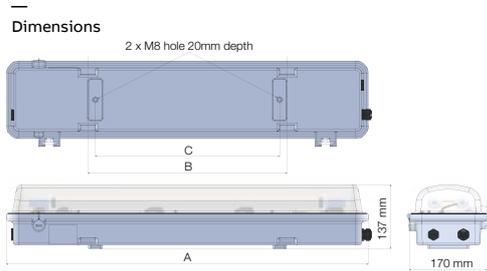
Lamps	Fluorescent Lamp (order separately) T8 bi-pin tube, lampholder G13, diameter 26mm - white industry 4000°K
Photometric curve	See page 182
Power factor	0.95
Wiring Configuration	5 wires
Electrical protection class	I
Grounding system (NFC 15100):	TNS, TNC, TT, IT neutral system
Terminal block (spring)	Jumped bar x2 terminal blocks 4mm ² (rigid wire), 2.5mm ² (flexible wire) Terminals supplied L1, L2, L3, N, PE (looping possible with one additional cable gland)

Technical information

Cable entries	Three entries M20
For non-armoured cable:	Included two M20 nylon plugs (EX-M20) and one M20 nylon cable gland, diameter 6-12mm (EXCGM20S) and three nylon locknuts
For armoured cable:	Included continuity plate - two M20 nylon plugs (EX-M20) and one M20 nickel plated brass cable gland, diameter 6-12/ 8.5-16mm (EXN04MMC1K)
Housing	Glass reinforced reinforced polyester housing for high impact strength, UV protected polycarbonate diffuser to resistant to harsh environments, Painted steel gear tray & Stainless steel 316L insert
Fixing (included with product)	V015 - 2x Two zinc-plated steel brackets for ceiling mounting

Linear fittings

EVS EM Emergency fluorescent fitting with easy disconnect - 3h - zones 1, 2 & 21, 22



3 wires: Equipped with 1 cable gland & 2 plugs

Type For		Wiring Configuration	Light Rating W	Battery h	Current A @ 230V	Dimensions mm			Weight kg
non armored cable	armored cable*					A	B	C	
EVS140EM-0000	EVS140EM-C000	3 wires	1 x 36	3h	0.18	1370	900	700	11.02
EVS165EM-0000	EVS165EM-C000	3 wires	1 x 58	3h	0.26	1670	900	700	13.40
EVS240EM-0000	EVS240EM-C000	3 wires	2 x 36	3h	0.33	1370	900	700	11.02
EVS265EM-0000	EVS265EM-C000	3 wires	2 x 58	3h	0.48	1670	900	700	13.40

Note. * For armored cable with 1 continuity plate.

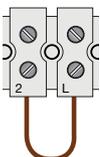
Electrical Features

General data	
Lamps	Fluorescent Lamp (order separately) T8 bi-pin tube, lampholder G13, diameter 26mm - white industry 4000°K
Photometric curve	See page 182
Power factor	0.95
Wiring Configuration	3 wires
Battery	Battery NiCd 7.2V 4Ah in flameproof case (Ex d) Lumen output in emergency mode (1 lamp lit) 3 hours: 18% for EVS140, EVS240 3 hours: 14% for EVS165, EVS265 Monitored by LED

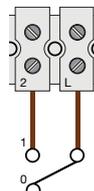
General data	
Terminal block (screws plug in terminal block)	4mm ² (rigid wire), 2.5mm ² (flexible wire) Terminals supplied L, N, PE (looping possible with one additional cable gland)
Cable entries	Three entries M20
For non-armoured cable:	Included two M20 nylon plugs (EX-M20) and one M20 nylon cable gland, diameter 6-12mm (EXCGM20S) and three nylon locknuts
For armoured cable:	Included continuity plate - two M20 nylon plugs (EX-M20) and one M20 nickel plated brass cable gland, diameter 6-12/ 8.5-16mm (EXN04MMC1K)
Housing	Glass reinforced polyester housing for high impact strength, UV protected polycarbonate diffuser to resist harsh environments, Painted steel gear tray & Stainless steel 316L insert
Fixing (included with product)	V015 - 2x Two zinc-plated steel brackets for ceiling mounting

Emergency function diagrams

Wiring provided by DTS	Mains Supply	Tube	Battery
Maintained Mode	ON	Lit	Charging
	OFF	Only emergency tube lit	Discharging



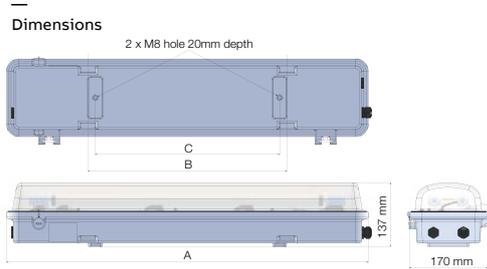
Switch between L/2	Mains Supply	Tube	Battery
Non Maintained Mode *	ON	OFF	Charging
	OFF	Only emergency tube lit	Discharging



* This table corresponds to the position 0 "open". If the switch is on position 1 "close", refer to the table on the left

Linear fittings

EVS EMA Emergency fluorescent fitting with automatic test & blackstart capabilities - zones 1, 2 & 21, 22



5 wires: Equipped with 1 cable gland & 2 plugs

Type For		Wiring Configuration	Light Rating W	Battery h	Current A @ 230V	Dimensions mm			Weight kg
non armored cable	armored cable*					A	B	C	
EVS240EMA-0000	EVS240EMA-D000	5 wires	2 x 36	3h	0.33	1370	900	700	11.02

Note. * For armored cable with 1 continuity plate.

Electrical Features

Lamps	Fluorescent Lamp (order separately) T8 bi-pin tube, lampholder G13, diameter 26mm - white industry 4000°K
Photometric curve	See page 182
Rated voltages	Electronic ballast 220-240 Vac / 50-60Hz EOL (End of life) the ballast prevents the lamp cap at the end of lamp life cycle from
Power factor	0.95
Wiring Configuration	5 wires
Battery	Battery NiCd 6V 7Ah in flameproof case (Ex d) for EVS140, EVS240 Lumen output in emergency mode (1 lamp lit) 3 hours: 33% for EVS140, EVS240
Emergency function diagrams	Monitored by two LED

Electrical Features

Terminal block	Terminals block up to 4mm ² (rigid wire), 2.5mm ² (flexible wire) Terminals supplied L1, L2, L3, LS, N, E, BS (looping possible with one additional cable gland)
Cable entries	Three entries M20
For non-armoured cable:	included two M20 nylon plugs (EX-M20) and one M20 nylon cable gland, diameter 6-12mm (EXCGM20S) and three nylon locknuts
For armoured cable:	included continuity plate - two M20 nylon plugs (EX-M20) and one M20 nickel plated brass cable gland, diameter 6-12/ 8.5-16mm (EXN04MMC1K)
Housing	Glass reinforced polyester housing for high impact strength, UV protected polycarbonate diffuser to resist harsh environments, Painted steel gear tray & Stainless steel 316L insert
Fixing (included with product)	V015 - 2x Two zinc-plated steel brackets for ceiling mounting

Wiring provided by DTS

Maintained Mode	Mains Supply	Tube	Battery
	ON	Lit	Charging
	OFF	Only emergency tube lit	Discharging

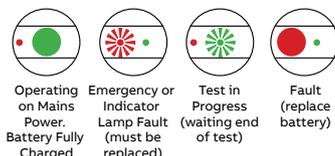
Switch between LS/L1

Non Maintained Mode *	Mains Supply	Tube	Battery
	ON	OFF	Charging
	OFF	Only emergency tube lit	Discharging

* This table corresponds to the position 0 "open". If the switch is on position 1 "close", refer to the table on the left

Preventive maintenance mode

Battery charge - daily
Emergency lamp during 1min - weekly
Battery charge capacity during 1hr - quarterly
Clear system test display
Battery charge monitored by 2 LED



Emergency function diagram - Blackstart mode

The EMA product contains 2 blackstart terminals. The blackstart mode consists in disconnecting the battery and so switching off the fitting. This mode is mainly used during maintenance. As soon as the maintenance is done, the main power ON and the blackstart terminals connected, the emergency fitting is ready to be used as the battery is not discharged.

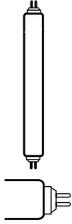
Switch between BS terminals

Mains Supply	Tube	Battery
ON	OFF	Charging
OFF	Only emergency tube lit	Discharging

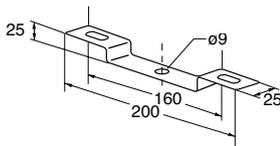
This table corresponds to the position 0 "open".

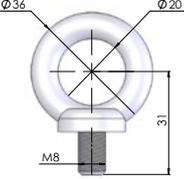
Linear fittings - accessories

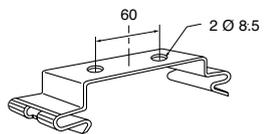
EVS - zones 1, 2 & 21, 22

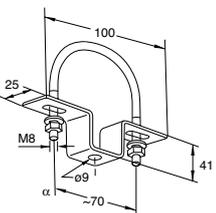
Bipin T8 fluorescent lamps	Type	Power W	Lumen output lm	Lampholder	Specifications
	TL18W	18	1250	G13	G13 - ø 26mm
	TL36W	36	3350	G13	Colour temperature: White industry 4000°K
	TL58W	58	5200	G13	CRI: > 80 lm/W: 65 to 93 Average operating life: 12000 hours

Fixing accessories*

Brackets	Type	Specifications
	V015	2 x pair of zinc plated steel for ceiling mounting (Included with product)
	V016	Stainless steel 316L brackets for ceiling mounting

Hook	Type	Specifications
	V024	2x Zinc plated steel suspension hook

Mounting bracket clip	Type	Specifications
	V014	2x Rapid ceiling mounting with stainless steel clip

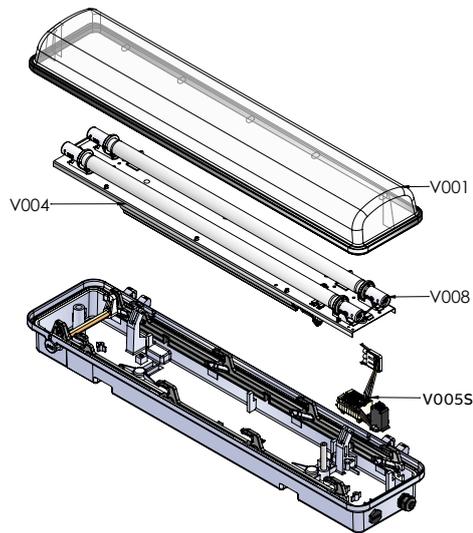
Fixing bracket and flange	Type	Specifications
	V018	2x zinc plated steel pole mounted brackets for ø1"¼ & 1"½
	V019	2x zinc plated steel pole mounted brackets for ø2"
	V021	2x Stainless steel 316L pole mounted brackets for ø1"¼ & 1"½
	V022	2x Stainless steel 316L pole mounted brackets ø2"

* Screws and locknuts supplied

Linear fittings - spare parts

EVS - zones 1, 2 & 21, 22

Spare parts



Spare parts	Type	Specifications
	V00120W	20W diffuser with gasket for EV. range
	V00140W	40W diffuser with gasket for EV. range
	V00165W	65W diffuser with gasket for EV. range
	V0041X20WS	Gear tray 1x18W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS120
	V0041X40WS	Gear tray 1x36W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS140
	V0041X65WS	Gear tray 1x58W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS165
	V0042X20WS	Gear tray 2x18W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS220
	V0042X40WS	Gear tray 2x36W with electronic ballast 220- 240Vac/Vdc 50-60Hz for EVS240
	V0042X65WS	Gear tray 2x58W with electronic ballast 220- 240Vac/Vdc 50-60Hz for EVS265
	V0041X40WEMS	Emergency gear tray 1x36W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS140EM
	V0042X20WEMS	Emergency gear tray 2x18W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS220EM
	V0041X65WEMS	Emergency gear tray 1x58W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS165EM
	V0042X65WEMS	Emergency gear tray 2x58W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS265EM
	V0042X40WEMAS	Emergency gear tray + auto test 2X36W with electronic ballast 220-240Vac/Vdc 50-60Hz for EVS240EMA
	V005S	Connection pack: XIN terminal, connector
	V008	Bi-pin G13 lampholder
	V02520x40W	Brass continuity plate for EV. 120, EV. 220, EV. 140, EV. 240
	V02565W	Brass continuity plate for EV. 165, EV. 265
	V011	Battery pack Ni-Cd 7.2v -4Ah for EVS140EM, EVS240EM
	V01140WEMEA	Battery for EVS240EMA
	EXCGM20S	M20 Exe IIC nylon cable gland for non armoured cable diameter 6-12mm, locknut available separately as LNPNB/M20
	EXN04MMC1K	Kit M20 Ex-d IIC Ex-e II Ex-td double compression nickel plated cable gland for armoured cable diameter inner 6-12 outer 8.5-16mm locknut, sealing gasket