

THORN

Voyager Exel

Self-contained emergency luminaire
range with excellent performance



Voyager Exel

A complete solution for corridors and open spaces

Whether you are looking for an emergency lighting bulkhead or exit sign, surface or semi-recessed mounted – Voyager Exel allows you to select and combine precisely what you need for your application.

Thorn presents the complete solution. You simply decide if you want a basic emergency version, a selftest version (Thorn Explorer SelfTest) or an addressable version (Thorn Explorer Project or Explorer System). One concept runs through the whole building, providing all the safety you need and enough light in open space areas to dispel feelings of panic, guiding you to the exits in times of emergency. Just rely on Voyager Exel.



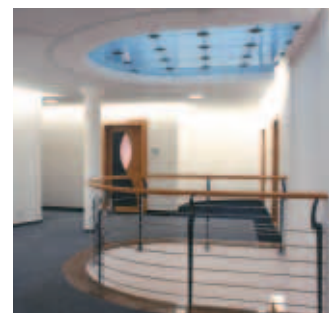
Anti-panic lighting

The emergency lighting in open spaces has to provide sufficient light to avoid panic (0.5 lux minimum according to European standards)

Shops are a typical example of an open space, customers must feel safe during an emergency or a short mains failure. If there is the need to evacuate the building, everyone must be guided along the shortest route to the nearest exit, without any risk.

In the open space area of the shop you would use the bulkhead version of Voyager Exel for providing anti-panic lighting. If the shop is fitted with a suspended ceiling you would use the recessed version – now Voyager Exel looks sleek and is integrated into the ceiling.

For guiding customers along an escape route you simply need to add the double sided exit sign attachment instead of the diffuser. Alternatively you could fix one of the legends onto the diffuser and mount Voyager Exel onto the wall or above the door for escape route signage.



Escape route lighting

Emergency lighting has to provide sufficient light to guide people to safety (1 lux minimum along the escape route centre line according to European standards)

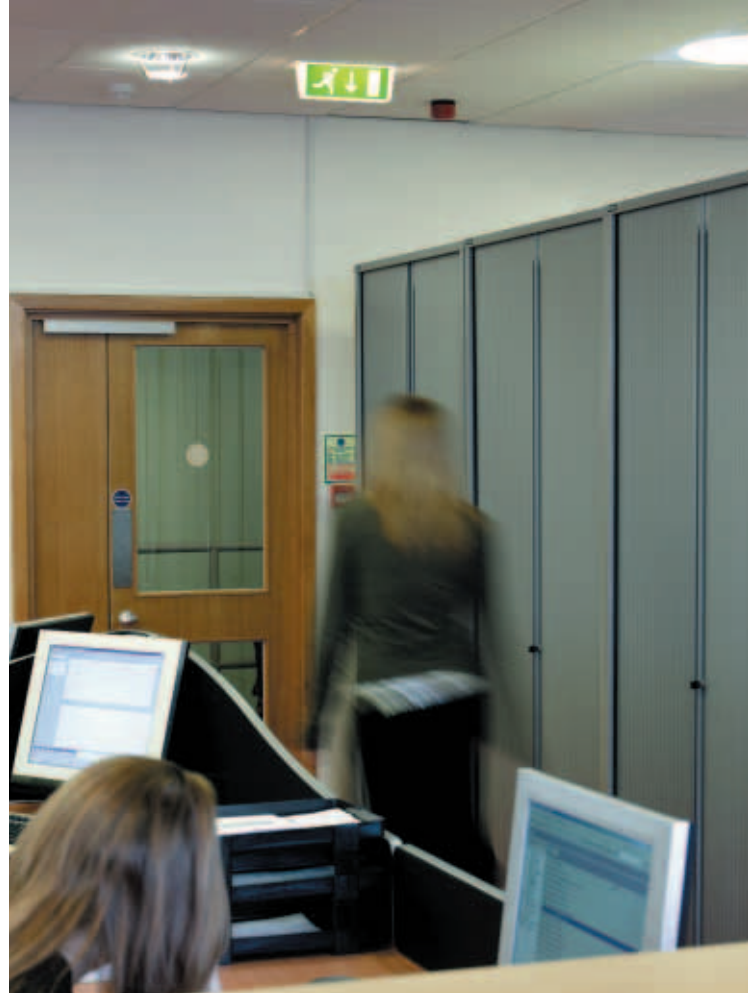
In times of emergency it is essential for people to be able to see the way out and locate fire fighting and safety equipment.

Take for example a corridor of an office building. There are intersections, changes in levels and directions, plus exit doors intended to be used in an emergency. All these require an emergency luminaire within 2m. Add to this the first aid posts, fire fighting equipment, fire alarm call points and lastly the area outside the final exit door.

All of these areas and many more have to be regarded when planning the emergency lighting.

For the escape route lighting you would use the bulkhead version of the Voyager Exel. The recessed version allows you to integrate Voyager Exel into a suspended or plasterboard ceiling.

For signage you simply add the double sided exit sign attachment instead of the diffuser or fix one of the legend labels onto the diffuser and mount Voyager Exel onto the wall e.g. above the door.



Excellent optical performance

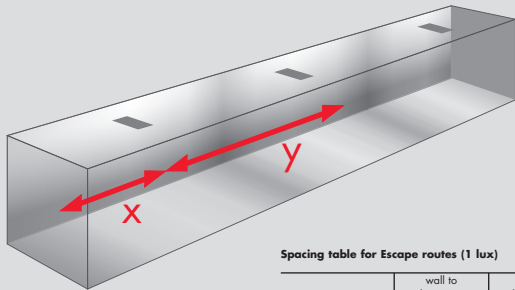
Voyager Exel has superb optical performance that has been optimised to give excellent spacing in the emergency mode. This means that for a typical corridor (2m wide) luminaires are spaced at 7.2m (for a mounting height of 3m).

Typically fewer luminaires may be used to produce the same performance. For instance a 19m corridor requires only 3 bulkheads, rather than 4 conventional units, thus saving 25% on materials and labour.

Modularity

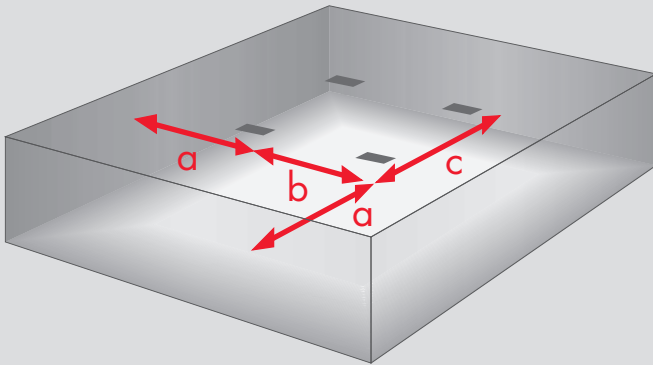
Voyager Exel is as modular as building blocks, just pick what you need for your application and put it together:

- The basis of the Voyager Exel product range is the bulkhead with the high performing optical diffuser. You can mount it onto surfaces like ceilings and walls.
- Instead of the diffuser you can attach the double sided exit sign to the bulkhead body to create a ceiling mounted escape route sign.
- If the building is fitted with suspended ceilings, you can use the recessed versions of either the bulkhead or the exit sign to integrate Voyager Exel into, a slender and unobtrusive solution!
- For both the diffuser and for the double sided exit sign attachment, self-adhesive legends are used, helping you to adapt Voyager Exel to provide escape route signage.



Spacing table for Escape routes (1 lux)

	wall to luminaire	between luminaires
Mounting height	X	Y
2.5m	2.2	7.2
3m	1.6	6.9



Spacing table for Open areas (0.5 lux)

	wall to luminaire	between luminaires	between luminaires
Mounting height	a	b	c
2.5m	2.1	8.1	5.7
3m	2.0	8.5	6.0



Making life easy

SelfTest and Addressable test versions of Voyager Exel eliminate the need for expensive and time consuming manual testing

Just like fire protection systems, emergency lighting is potentially life saving but worthless and hazardous if the equipment is not properly maintained. As a consequence there are increasingly stringent legal requirements to regularly inspect, test and maintain emergency lighting in workplaces or public buildings. Explorer, the Thorn Lighting Emergency Test product range, provides automated testing of emergency luminaires that is fully compliant with European Standards. This offers complete peace of mind and safety without the need for costly and time-consuming manual testing by a competent person, which is required for the basic emergency range version of Voyager Exel. Explorer has been designed with three options to suit varying requirements and budgets.

Explorer SelfTest

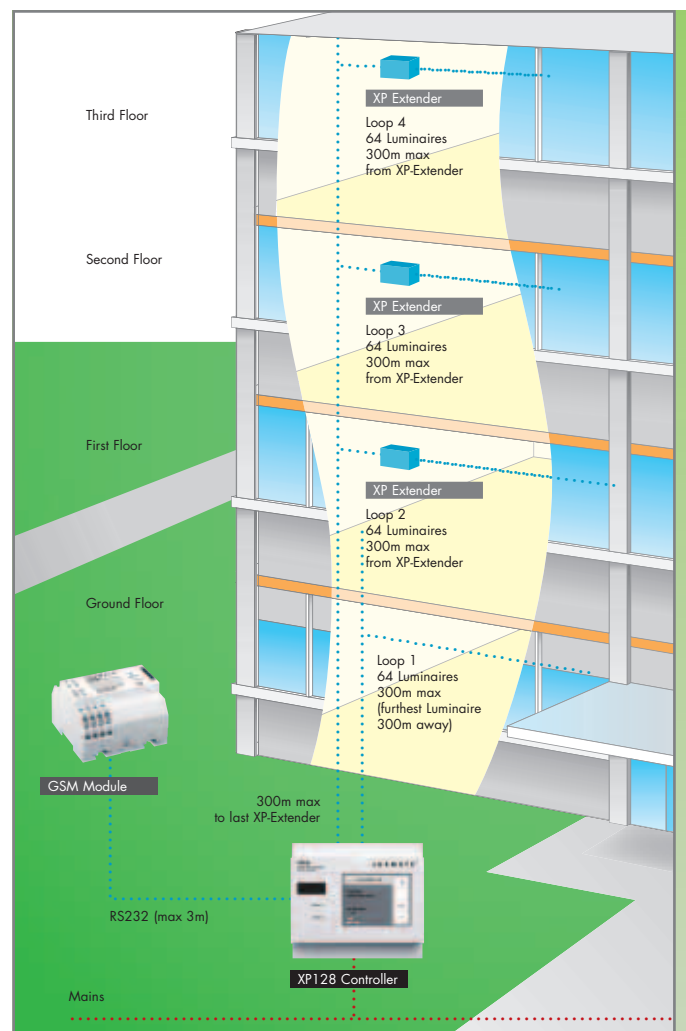
SelfTest has an integral diagnostic microprocessor contained within an emergency luminaire, e.g. the Voyager Exel. A bi-colour LED integrated in the luminaire indicates status as it monitors and automatically tests its emergency functions at intervals compliant with legislation. Easy to install and requiring no additional cabling, Explorer SelfTest provides simple and reliable standalone automatic testing, eliminating the need for costly manual testing by a competent person.

Explorer Project

An addressable testing system, providing fully automatic monitoring, testing and fault logging for emergency luminaires like the Voyager Exel, using the Explorer Project XP128 Controller. Explorer Project's addressable fault reporting capabilities eliminate the need for visual inspection. This offers a highly convenient and fully programmable solution that is ideal for small and medium sized projects of up to 128 luminaires (or when using the Explorer Project XPX64 Extenders, up to 256 luminaires) can be controlled. The system works by periodically and automatically testing the emergency luminaires for working efficiency. The tests are centrally recorded and any faults are logged. These can then be printed (using the handheld Explorer Project XPPI Printer) or, if the optional Explorer Project XPGSM module is installed, faults can also be reported via an SMS text message to a mobile phone. Fault reports identify the luminaire concerned and the type of fault (lamp, battery or emergency interface), allowing swift location and repair.

Explorer System

A programmable addressable testing system for emergency lighting, which allows tests to be run automatically, or manually using a central PC with a monitoring software. Faults are logged and recorded and fault reports can then be printed, emailed or faxed. An ideal solution for larger projects (up to 4,500 addresses), eliminating the need for visual inspection and maintenance walks.



Voyager Exel

An economical and high performance 8W IP65 bulkhead with automatic testing capabilities, suitable for indoor and outdoor applications.



Surface mounted bulkhead



Semi-recessed bulkhead



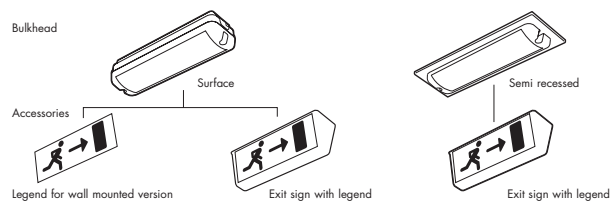
Surface mounted bulkhead with exit attachment and legend



Semi-recessed with exit attachment and legend



Surface mounted version with legend



- High lumen output allows wide luminaire spacing
- Non-maintained and maintained versions available
- Available with Explorer SelfTest and addressable test for hassle free testing
- IP65 protection
- Choice of surface or semi-recessed versions for different applications
- Double sided exit attachment available, supplied complete with legend transfers

Lamps

8W T5 (T16) (FD) linear fluorescent. Cap: G5

Materials/Finish

Body: white polycarbonate
Diffuser: clear prismatic polycarbonate
Exit attachment: opal polycarbonate

Installation/Mounting

Surface with 20mm rear cable entry. BESA fixing to rear. Four/six way terminal block 2 x 2.5mm² capacity.

Standards

Designed and manufactured to comply with EN60598.2-22
EN61547 and EN55015.
850°C Glow wire.
Ta -5°C to +25°C
Class I Electrical.
IP65

Specification

To specify state: Economical, high performance, self-contained surface/semi-recessed IP65 emergency bulkhead for maintained/non-maintained emergency lighting of 3 hours duration with 8W T5 fluorescent lamp and manual/selftest/addressable testing capabilities. As Thorn Voyager Exel.

Ordering guide Supplied complete with lamp. Legend kit or exit attachment with legends to be ordered separately.

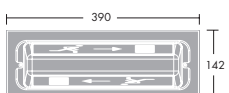
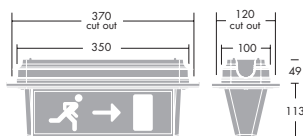
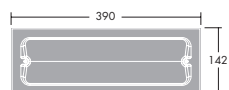
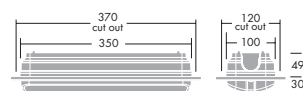
Description	Ilcos Code	Socket	Weight (Kg)	Cat.No.
Surface				
VOYAGER EXEL 1X8W T16 E3M WHI MSF	FD	G5	1.3	EXLS3M
VOYAGER EXEL 1X8W T16 E3NM WHI MSF	FD	G5	1.2	EXLS3NM
VOYAGER EXEL 1X8W T16 E3MT WHI MSF	FD	G5	1.4	EXLSST3M
VOYAGER EXEL 1X8W T16 E3MX WHI MSF	FD	G5	1.4	EXLSAT3M
Semi - Recessed				
VOYAGER EXEL 1X8W T16 E3M WHI MSR	FD	G5	1.9	EXLR3M
VOYAGER EXEL 1X8W T16 E3NM WHI MSR	FD	G5	1.8	EXLR3NM
VOYAGER EXEL 1X8W T16 E3MT WHI MSR	FD	G5	2	EXLRST3M
VOYAGER EXEL 1X8W T16 E3MX WHI MSR	FD	G5	2	EXLRAT3M

E3M - Maintained, WHI - White, E3NM - Non-maintained, E3MT - Maintained SelfTest, E3MX - Maintained addressable test

Accessories

Description	Weight (kg)	Cat.No.
VOYAGER EXEL/ECO LEGEND	0.1	EVWBKIT
VOYAGER EXEL/ECO KIT EDP OP PC	0.3	EVWBEXIT
VOYAGER EXEL BATTERY SPARE LN NICD 2	0.4	*
EMERG BATTERY SPARE LN NICD 4	0.5	*
XP128		XP128
XPX64		XPX64
XPPI		XPPI
XPGSM		XPGSM
XPPSU		XPPSU
Explorer System		*

* Available on request



THORN

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www.thornlighting.co.uk

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