

# FHL

- Zones 1, 2, 21, 22
- Integrated electronic ballast
- Power supply 24 V DC
- Compact 24/36 W fluorescent tube
- Degree of protection IP66

*Body in aluminium*



*Polycarbonate tube*



*Guard in stainless steel*



*Suitable for 4-pin fluorescent tubes*



*Stainless steel hook*



# FHL series Portable inspection lamp

FHL series portable inspection lamps for compact 24/36 Watt fluorescent tubes have been specifically designed for carrying out inspection and maintenance work in all areas that are potentially explosive due to the presence of gases and dusts such as in the petrochemical industry, off-shore installations, tank control and processing areas. Thanks to their robust construction, they are easily handled and have a high degree of protection and optimal performance. They are also used in the naval sector for inspecting engine rooms and in the farming industry for checking the inside of silos. In general, these lamps are ideal for any application calling for a reliable source of light. Thanks also to the accessories which these lamps are fitted, they can be used in a wide variety of ways furthermore, thanks to the energy saving Philips master PL fluorescent tubes, the FHL series also provides an excellent colour rendering index in any position and operating temperature.

## Application sectors:



## CERTIFICATION DATA

<b>Classification::</b>	Group II	Category 2GD		
<b>Installation:</b>	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
<b>Marking:</b>	CE 0722 Ex II 2GD Ex e mb IIC T.. Gb - Ex tb IIIC T..°C Db IP66			
<b>Certification:</b>	ATEX	CESI 09 ATEX 041X		
<b>Standards:</b>	CENELEC EN60079-0:2009, EN60079-1:2007, EN60079-31:2009, EN60598-1:2008+A1:2009, EN60598-2-8:2012, EN61547:2009 and EUROPEAN DIRECTIVE 2014/34/UE European Directive 2006/95 Low voltage European Directive 2004/108 Electromagnetic compatibility European Directive 2003/108 WEEE Waste electrical and electronic equipment European Directive 2011/64 RoHS			
<b>Class temperature:</b>	85°C (T6)			
<b>Ambient temperature:</b>	-40°C +50°C			
<b>Degree of protection:</b>	IP66			



## FHL series Portable inspection lamp



ORIGINAL PRODUCT

### MECHANICAL FEATURES

<b>Handle and heads:</b>	Low copper content aluminium alloy
<b>External tube:</b>	Polycarbonate with excellent transparency and brilliance characteristics (in the visible light field with wavelengths of between 400 and 700µm, the uniform transmission is of about 89%). Exceptional shock and UV resistance, flame retardant.
<b>Seal:</b>	Silicone resin between the aluminium heads and the polycarbonate tube
<b>Guard:</b>	Electro-polished 316L stainless steel.
<b>Gaskets:</b>	Acid, hydrocarbon and high temperature resistant silicone
<b>Bolts and screws:</b>	Stainless steel
<b>Hook:</b>	Stainless steel
<b>Entries:</b>	1 x 1/2" NPT entry. Lighting fixture complete with NAV1NB cable gland for non-armoured cable
<b>Coating:</b>	Polyester coating Ral 7035 (Light grey)
<b>Corrosion Resistance:</b>	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

### ELECTRICAL FEATURES

<b>Lamp holder:</b>	2G11 (4-pins)
<b>Ballast:</b>	Electronic, installed in the handle
<b>Rated voltage:</b>	24 Vdc
<b>Connection:</b>	Direct to the connectors fixed on the electronic board L, N, Pe max section 2.5 mm <sup>2</sup>
<b>Wiring:</b>	Silicone rubber cables with glass braid protection against high temperatures

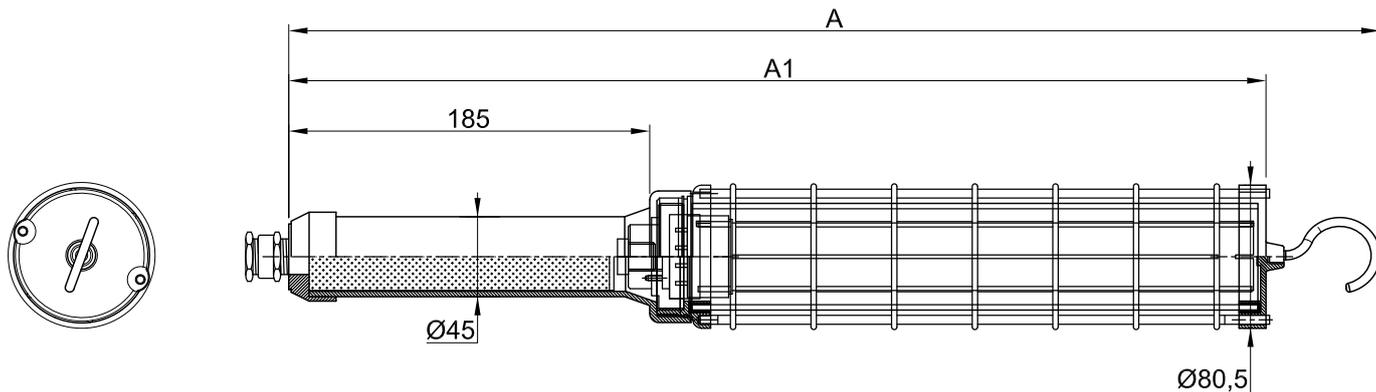
### ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Compact 4 pin PL-L 24W fluorescent lamp for FHL-124 or PL-L36W for FHL-136  
 Eyebolt internal Ø 20mm  
 Protective reflector  
 Base for vertical use  
 Magnetic mounting  
 Cable winder (14 metres)  
 Portable lamp complete with 5m of 3x1.5mm<sup>2</sup> cable and Cortem plug model SPY (Code FHL-124C5 and FHL-136C5)  
 GAS UNI ISO 7/1 thread

# FHL series selection chart

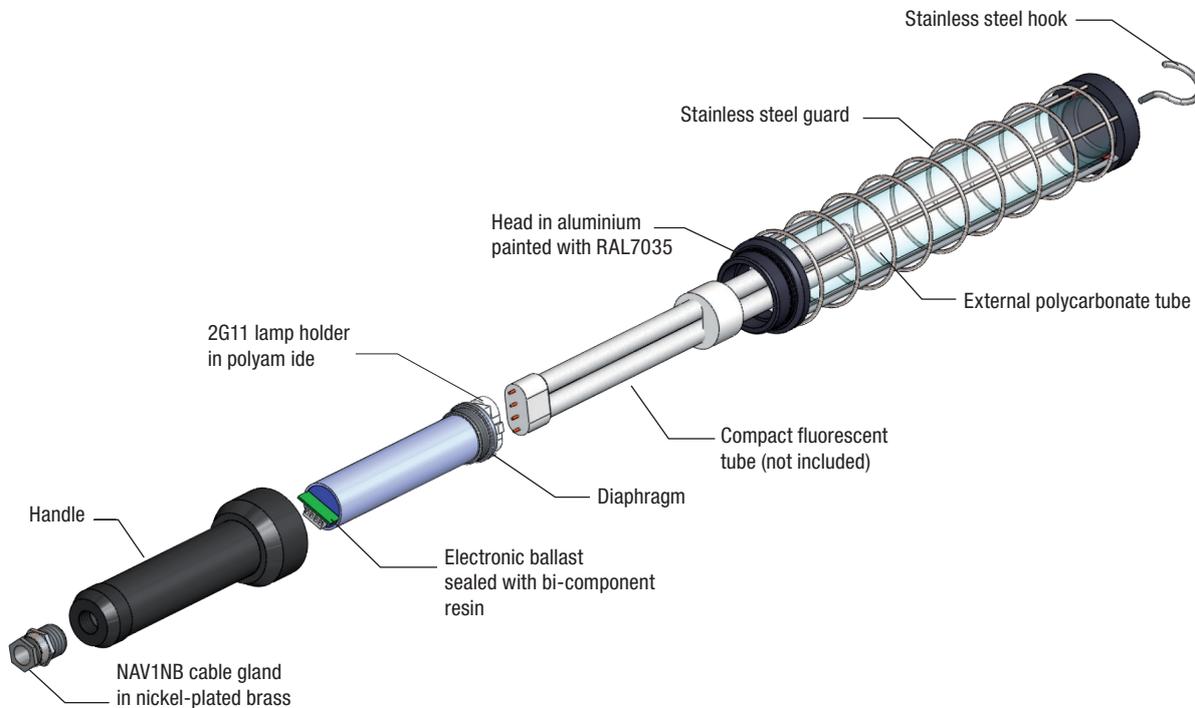
Code	Dimensions mm		Lamp n°	Power supply	Watt	Class T.a. +50°C	Max. surface temp. °C	Weight kg
	A	A1						
FHL-124	622	544	1	24 Vdc	24	T6	79,1	1.30
FHL-136	713	638	1	24 Vdc	36	T6	79,1	1.50

## DIMENSIONAL DRAWING



Dimensions in mm

## EXPLODED DIAGRAM OF PORTABLE LAMP



### DON'T FORGET TO ORDER THE ACCESSORIES

Example: Type of lighting fixture + FHL-124

Fluorescent tubes + LAMP-PLL24W

Protective reflector + G24-669

Eyebolt + GOF-8

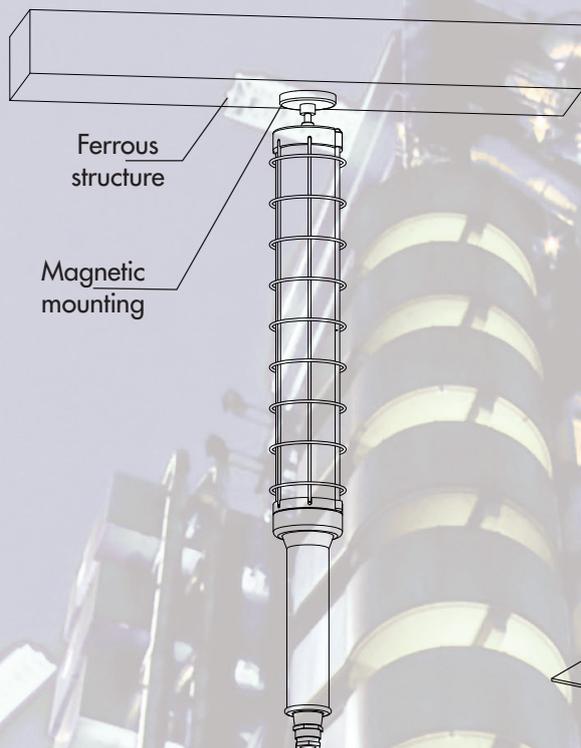
+ other...see key



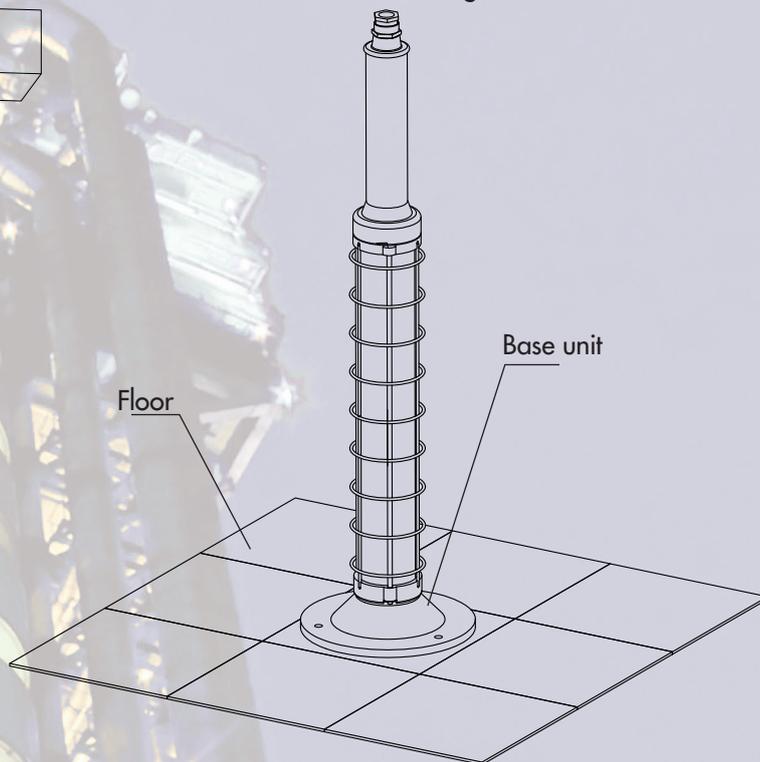
## FHL series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Compact fluorescent tube	24 W	1800 lm (FSD24W)	LAMP-PLL24W	 
		36 W	2900 lm (FSD36W)	LAMP-PLL36W	
	Base for vertical use	FHL-124 FHL-136	Material: white RAL 7035 paint	G-161	 
	Permanent magnet for pendant or horizontal mounting	FHL-124 FHL-136	Material: round 63x14 magnet, traction 320N	FTN-32	 
	Eyebolt internal Ø20 mm	FHL-124 FHL-136	Material: galvanised steel	GOF-8	 
	Protective reflector	FHL-124	Material: white painted aluminium	G24-669	 
		FHL-136		G36-669	
	Automatic wall-mounted spring-loaded cable winder <b>Attention: the cable winder can only be used in safe areas</b>	FHL-124 FHL-136	Alluminium cable winder body with IP65 degree of protection Stainless steel support bracket Cable length - 23 metres	ZECA6189PRCIP65	 
	Electronic ballast sealed with sparkproof of two-part resin	FHL-124	24 Vdc	G24-0558	
		FHL-136		G36-0558	
	Hook	FHL-124 FHL-136	Material: stainless steel	HOOK-M8	
	Cable gland		For models and codes, visit <a href="http://www.cortemgroup.com">www.cortemgroup.com</a>	NAV1NB	

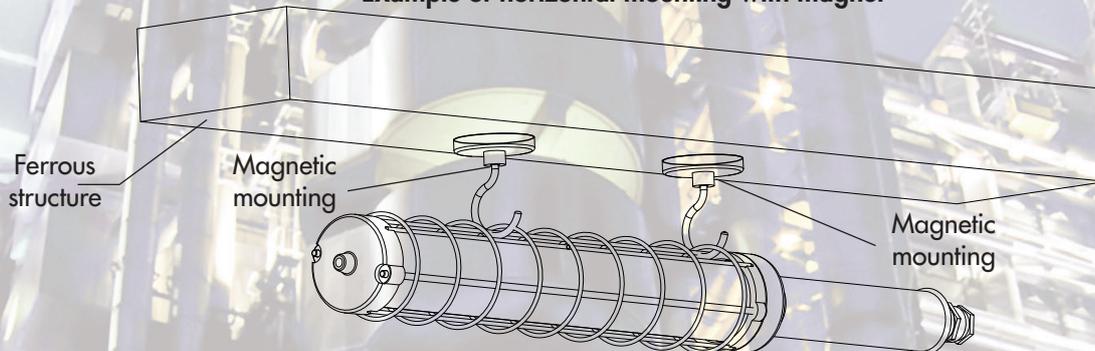
### Example of pendant mounting with magnet



### Example of the base being used for vertical mounting



### Example of horizontal mounting with magnet



### Protective reflector mounting system

Reflector in white painted aluminium to protect from dazzling

