



13. Lighting

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847 Lighting standards





Selection guide

LIGHTING : THE KEY TO SAFE AND ACCURATE WORK

Comfort and Efficiency

- It is essential to use light suitable for the application to avoid tired eyes and accidents at work.
- Engineering or maintenance tasks require an illumination of 300 to 500 lux.
- Inspection, finishing and painting tasks require an illumination of 750 to 1,000 lux.
- The light source must be designed and arranged to avoid uncomfortable glare.

There are a number of lighting technologies to choose from :

TECHNOLOGY	ADVANTAGES	DISADVANTAGES	LIGHTING POWER	FACOM OFFER
Incandescent lamps	Low cost	Poor impact resistance Very high temperature, risk of burns, fire and explosion	200 to 1,000 lux	
Fluorescent and compact fluorescent lamps	Diffuse lighting, low temperature, low consumption	Average impact resistance	300 to 400 lux	777 range
Leds	Very good impact resistance, low temperature, very low consumption, long operating life	Cost, concentrated light beam	300 to 1,000 lux	779 range



Safety

For your safety, the supply voltage of inspection lamps used for working inside the body of a vehicle must not exceed 50 V.

24 V IP 55 INSPECTION LAMP

IP 64 INSPECTION LAMP

IP rating : What does it mean ? (e.g. for a 4.5 V IP 64 inspection lamp)

1st figure (e.g. : IP 64) : Protection of live components against ingress of solid objects		2nd figure (e.g. : IP 64) : Protection of live components against ingress of liquid	
0	No protection	0	No protection
1	Solid objects greater than 50 mm diameter cannot penetrate	1	Vertically falling drops of water
2	Solid objects greater than 12 mm diameter cannot penetrate	2	Water dripping on the enclosure tilted at 15° from its normal position
3	A steel wire of 2.5 mm diameter cannot penetrate	3	Spraying water at an angle of up to 60° from the vertical
4	A steel wire of 1 mm diameter cannot penetrate	4	Splashing water against the enclosure from any direction
5	Invisible amount of talcum powder deposited when tested in a dust chamber	5	Water projected in jets (6.3 mm) against the enclosure from any direction
6	No talcum powder deposited when tested in a dust chamber	6	Water projected in jets (12.5 mm) against the enclosure from any direction
		7	Immersion to 1 m
		8	Submersible equipment according to manufacturer's specifications

LED head lamp

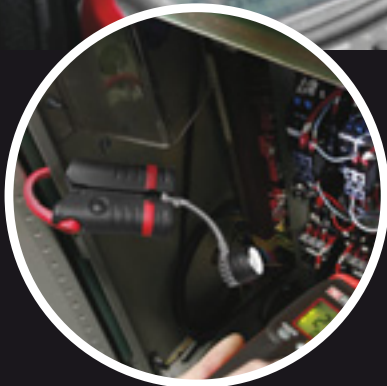
779.FRT

- Fitted with 4 high-intensity LEDs.
- Washable removable strap.
- Normal and booster power settings (50 and 100 %) for adjusting brightness and autonomy.
- Turns through 180°.
- Fitted with a 20 x 3mm belt or helmet clip.
- Autonomy : approximately 50 hours in normal position, 20 hours in booster position.
- Presented on a card with 3 AA alkaline batteries and an interchangeable strap 779.FRT01.
- $\Delta\Delta$: 91g.



New

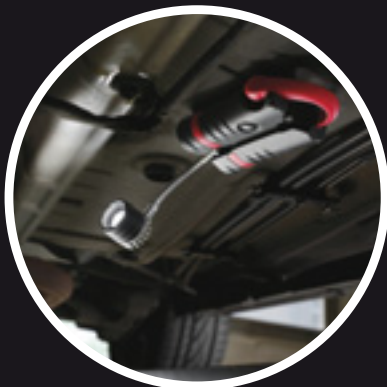
779.PC "POCKET" LED light



HANDS FREE LIGHTING

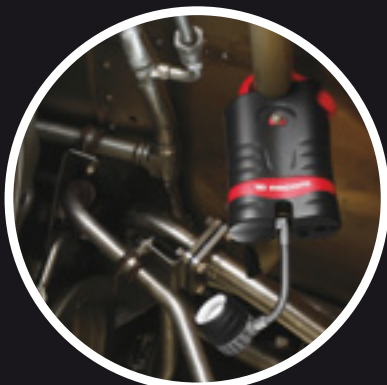
Quick and easy to attach.

To illuminate a work area, one hand is often needed to hold the lamp. The FVS Pocket leaves both hands free as it incorporates a range of options for attachment and light direction.



Long autonomous operation.

FVS Pocket is a genuinely professional lamp, no need to change the batteries. Equipped with a rechargeable LI-ION battery, it provides 4 hours of continuous operation and recharges in only 2 1/2 hours.



Professional quality.

Designed to the same specifications as FVS, it provides 4 hours of constant illumination and is very resistant to impact, workshop solvents and water (IP55 : see table on page 847).



779.PC: the only genuinely hands-free pocket lamp.

Facom Vision System FVS POCKET

779.PC

- Cordless pocket light with rechargeable Lithium-ion battery.
- Battery life : 4 hour quick charging 2 1/2 hours.
- Microprocessor charging and brightness control.
- Constant level of brightness for the entire battery charge life.
- High-powered 1W LED.
- 2 settings :
 - Economy (300 lux at 50 cm).
 - Booster (400 lux at 50 cm).
- Impact-resistant housing.
- Protection rating : IP55.
- Comes with wall bracket or bench stand, 230V charger, power cord, user manual and wrist strap.



	Sizes	ΔΔ g
779.PC	130 x 65 x 30 mm	210



779.CL2**Cordless inspection lamp****FVS : a smart professional quality lamp**

The power consumption of the LEDs of your FACOM FVS inspection lamp is controlled by a microprocessor. This guarantees that the specified lighting power is maintained for as long as possible, avoiding a sudden loss of brightness.

The service life of the Ni-MH batteries is optimised by a temperature sensor controlled by the microprocessor that avoids excessive over-heating of the batteries and allows them to be fully charged, safely and without risk of damage.

**1,000 lux at 0.5 m
for 6 hours
between charges**

**Cordless LED inspection lamp****779.CL2**

- Microprocessor control of brightness and battery charge :
 - Guarantees a constant brightness of 800 lux for 6 hours between charges
 - Controlled charge ensures long battery life.
 - 14 high-performance white LEDs.
 - Brightness : 1,000 lux at 0.5 m.
 - High impact-resistant reinforced casing.
 - Does not heat up in operation.
 - Low battery indicated by flashing light.
 - Operator customisation and identification system.
 - Click-stopped hook for hanging and angling the lamp.
 - Charger attaches to wall or workstation.
 - Supplied with charger and 2 m long lead.
 - Protection rating : IP 64.
 - Impact resistance : IK 09.
 - Mains power : 100-240 V.
 - Charging time : 2 1/2 hours for 6 hours operation.
 - Power supply unit with European 2 pin plug.
 - Lamp dimensions : 263 x 50 x 50 mm.
- ΔΔ : 480 g.



Inspection lamps

Power supply and attachment kit for 779.CL1

779.CL14

- Comprising :
 - A metal restraining bar that attaches to the lamp charger.
 - A 12/24 V compatible power cord.
- Cigar-lighter cord 3 m long.
- Cigar-lighter cord supplied with 2 connectors for all types of socket.
- Compatible only with 779.CL1 and 779.CL2.
- Holds lamp 779.CL2 securely in place in a moving vehicle.



Pen light

836

- Aluminium body and tube.
 - Length : 137mm.
 - Tube diameter : 14mm.
 - Operates using two LR03 AAA (1.5volt) batteries, not included.
 - Adjustable focal length.
 - Supplied with wrist strap
 - Replacement bulb reference : 836.AMP.
- ΔΔ : 29g.



230 V inspection lamp

777A.230

- Complies with EN60598-1-2-8.
- Ingress protection rating IP 55 (dust and liquids).
- Low consumption : 11 Watts
- Does not become hot.
- Impact resistant 11 Watt fluorescent tube.
- Long-lasting, powerful light.
- Anti-glare hood.
- 300 lux at 50 cm. Glare-free light.
- Long power cord supplied with plug.
- Hydrocarbon-resistant H05 RN-F rubber cable.
- No transformer.
- No cable reel.



	Description	Voltage	Length of lead	Lamp IP	ΔΔ kg
777A.230	Inspection lamp	230 V	10 m	55	1,2
	Description				
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps				
777A.03	Spare protective glass for inspection lamps				

24 V inspection lamp

777A.24

- Complies with EN60598-1-2-8.
- Ingress protection rating IP 55 (dust and liquids).
- Low consumption : 11 Watts
- Does not heat.
- Impact resistant 11 Watt fluorescent tube.
- Long-lasting, powerful light.
- Anti-glare hood.
- 300 lux at 50 cm. Glare-free light.
- Long power cord supplied with plug.
- Hydrocarbon-resistant H05 RN-F rubber cable.
- No transformer.
- No cable reel.




	Description	Voltage	Length of lead	Lamp IP	ΔΔ kg
777A.24	Inspection lamp	24 V	10 m	55	1,2
	Description				
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps				
777A.03	Spare protective glass for inspection lamps				

Inspection lamps

230 V inspection lamp

777A.230EN

- ▷ EN 60 598 - 2 - 8
- Same specification as 777A.230.
- Reel for quick cable rewind and storage.
- Supplied with swivelling wall bracket.


	Voltage	Length of lead	Lamp IP	IP cable reel	ΔΔ kg
777A.230EN	230 V	14.5 m	55	42	4,81
Description					
777A.230EN02	Spare fluorescent tube				
777A.03	Spare protective glass for inspection lamps				



24 V inspection lamp with reel

777A.24EN

- ▷ EN 60 598 - 2 - 8.
- Lamp specification as 777A.24.
- Reel for quick cable rewind and storage.
- Supplied with swivelling wall bracket.

	Voltage	Length of lead	Lamp IP	IP cable reel	ΔΔ kg
777A.24EN	24 V	14,5 m	55	42	4,38
Description					
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps				
777A.03	Spare protective glass for inspection lamps				



Electric cable reel

777A.ENFR

- 2 poles + earth cable.
 - Max allowable power in fully unwound cable 1,800 W.
 - Lead 12 m long.
 - Supplied without a plug as requirements differ widely according to country and market. A plug must therefore be installed by the user.
 - IP rating 42.
 - Supplied with swivelling wall bracket.
- ΔΔ : 4.22 kg.

