

## Energizer E70

*Scirocco AB provides infrared-based ID systems with directional, ultra-compact readers and tags without a battery. Powered by LEDs in the reader or by a separate energizer, the tags can be read at large distance. The zone is well defined, without blind areas and unaffected by metal structures, electromagnetic interference and adjacent readers.*

Energizer E70 is used to power tags at large distance, and comprises a long-life 50 W directed halogen reflector lamp as its light source. The factory-mounted lamp A70 provides enough energy to typically drive a tag in the Scirocco system at up to 3 m distance.

E70 has an infrared filter that blocks most of the visible light, thereby reducing glaring light from the energizer without significantly affecting the reading distance of an infrared powered tag.

It is not recommended to use “cool-beam” lamps with a dichroic reflector, since these give less energy to the tags than needed. They may also cause excessive heat in the housing.

E70 operates at 10-12Vac and can be driven from the mains voltage via a transformer, such as A32 or A33. ‘Low-drive’ transformer A32 is designed for applications where more than five year life of the halogen lamp is essential (theoretical >10 years), while A33, thanks to its higher output voltage is suggested if the cable distance is longer than 2 m.

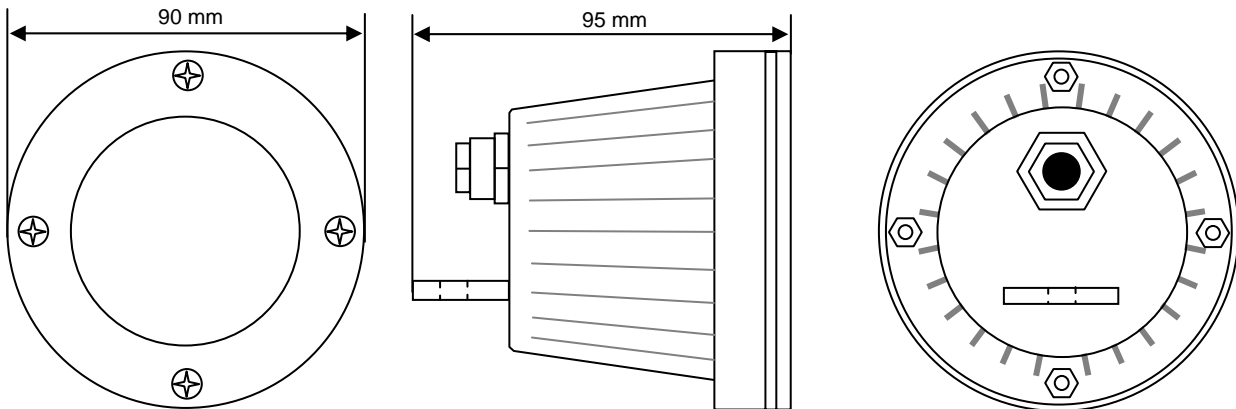
E70 can be mounted to horizontal or vertical surfaces with a stable and adjustable mounting bracket that is included in the device.

The energizer is fully sealed against water leakage and comes with a factory mounted cable.



- Standard lamp
- Infrared filter
- Watertight
- 10-12 Vac

## Dimensions



## Performance data

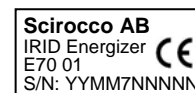
The reading range that can be achieved in a Scirocco IRID system with an E70 energizer is a function of the light intensity from the built-in light infrared source, the reader type and its settings and the tag type and settings. Although the reading range can be fully determined from these parameters, it goes beyond the scope of this data sheet to specify the detailed system performance. The Technical Manual gives details in relation to tag reading and writing distances under different lighting conditions.

## Mechanical data

Energizer E70 has a black casing fabricated in a high grade polyamide, and is sealed with a gasket and a cable gland. A label on the back surface defines the product.

## Environmental data

Temperature range: -20 to +40 °C  
 Humidity, non-condensing 95 %  
 Protection class IP 68



## Accessories

Reflector lamp A70 from Osram is offered as a standard accessory, but is also generally available in the market.

## Ordering codes

Energizer 'Infrabeam WFL'	E70	
12V 50W WFL ALU lamp	A70	38° 50W Osram Decostar 51 ALU
AC source low-drive	A32	240 Vac to 10 Vac transformer
AC source high-drive	A33	240 Vac to 12 Vac transformer

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In a continuing effort to improve our products, Scirocco AB reserves the right to change specifications and features without prior notice.