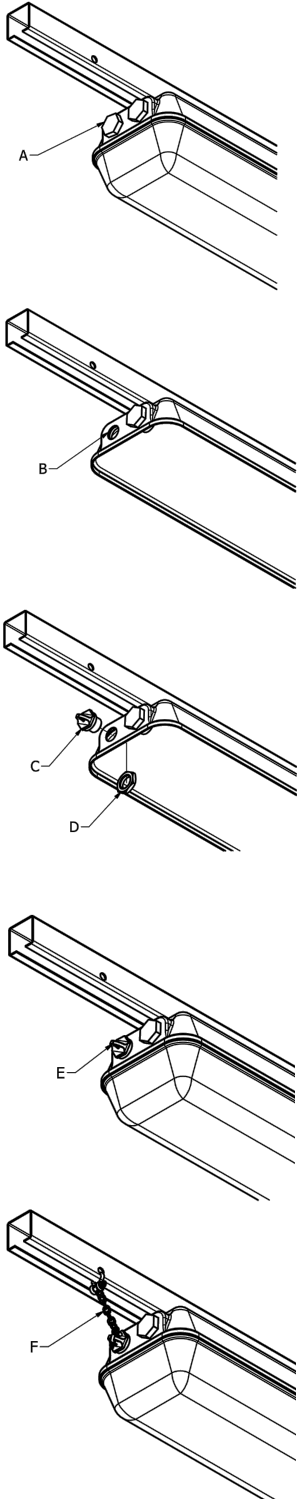


User manual for

Safety plug SP20/12 - SP20/17 & SP25/12 - SP25/17

Date: 21.05.2024



Installation:

1. Read the specifications for the relevant light fixtures before mounting the safety plug and check that it is in accordance with the Ex certificate for the luminaire.
2. Remove one of the blanking plugs. (A & B)
3. Install the secure plug with locking nut on the inside of the lamp. (C & D)
4. Installation: Hand tight, then a further half turn using wrench. Check o-ring for damage.
5. When mounting in luminaires of non-metallic material, there shall be a earth connection between the safety plug and earth connection inside the lighting fixture. Use the nut option for non-metallic enclosures. (Look at technical specification.)
6. Clearance and creepage distances according to IEC 60079-7 has to be checked after installation, with respect to the blanking elements length into the enclosure.
7. Installed in electrical equipment with 20mm or 25mm entrance hole only.

Installation of secondary barrier:

1. Use a lockable carbine hook to attach the safety wire to the safety plug.
2. Adjust the length of a safety wire, and mount this in nearby structure or suitable location.
3. A secondary barrier is now established. (F)
4. Breaking strength of the eye is tested to ca. 1500 kg.

Maintenance:

Safety plugs that showing traces of or has mechanical wear or host exposed to impact or deformation should not be used. Mounted safety plugs with such damage should be replaced with new ones.

Safety plugs are to be visually checked for damage once a year.

User manual for

Safety plug SP20/12 - SP20/17 & SP25/12 - SP25/17

Description of Equipment or Protective System

This certificate covers Highlight Secure AS blanking element made of brass with a thread size of M20x1.5 & M25x1.5 and belonging brass nut. It includes two different O-rings, one made of Viton and one made of silicone with two different operating temperatures. The blanking element includes a hank for connection to a safety wire. It is only the Ex requirements for blanking elements that has been assessed and tested in this certificate.

Type Identification

M20 Safety Plug SP20, comes in two length SP20/12 - SP20/17 with red Silicone O-ring

M25 Safety Plug SP25, comes in two length SP25/12 - SP25/17 with red Silicone or a green Viton O-ring

They are available in brass or nickel-plated brass.

Degrees of protection (IP Code)

IP66/67 according to IEC 60079-0

Special Conditions for Safe Use

- Operating temperature with Red, Silicone O-ring is -40°C to +135°C
- Operating temperature with green, Viton O-ring is -20°C to +135°C (only for SP25)
- The blanking element has to be mounted according to its manual and the enclosure or other suitable devices instructions.
- Clearance and creepage distances according to IEC 60079-7 has to be checked after installation, with respect to the blanking elements length into the enclosure.
- If mounted in non-metallic enclosure, special caution to earthing has to be taken.


According to standards:

IEC 60079-0:2017 Edition:7.0 - Explosive atmospheres - Part 0: Equipment - General requirements


IEC 60079-31:2013 Edition:2 - Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-7:2017 Edition:5.1 - Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Safetyplug SP20:

 II 2G Ex eb IIC Gb/ II 2D Ex tb IIIC Db CE2460HLSecure N6143 SP20-xxxx (batch id, year - batch)
Presafe 21 ATEX 28461X & IECEx PRE 21.0017X

Safetyplug SP25:

 II 2G Ex eb IIC Gb/ II 2D Ex tb IIIC Db CE2460HLSecure N6143 SP25-xxxx (batch id, year - batch)
Presafe 21 ATEX 28461X & IECEx PRE 21.0017X

