

FOGLight™

Installation Instructions

WARNING:
The FOGLight indicator is currently not recommended for fiery or gassy mine environments.

IMPORTANT:
Read all installation instructions completely before installing the FOGLight.

NOTE:
The FOGLight is currently available with three different cam sizes. See FOGLight selection box below.

A Preliminary check

1. Check if the FOGLight unit is flashing. If it is flashing red, green or both then the unit is faulty or has already been discharged.
2. Check the front and back seals are in place, if either are missing do not install. return unit and order new seals.
3. Check the install line is securely attached to the cam.
4. Check the cam moves freely and springs back. If not, check for obstructions. If the pin or cam is bent, straighten before use.
5. Check the install wire length is correct as per your installation hole length.

B Installation procedure

1. Check the diameter of your installation hole is no larger than the maximum size for your cam and no smaller than the minimum size for your cam (see FOGLight selection box below). Check that the closed cam can easily fit into the opening and pull out without jamming.
2. Check the depth of the install hole corresponds to your desired inspection length and the install wire length.
3. Pull the install line so that the cam retracts and insert the cam end of the wire into the install hole.
4. Push the FOGLight wire into the hole until only about 180mm of wire is protruding from the hanging wall.
5. Remove the front rubber cap from the FOGLight unit. Keep it in a safe place.
6. Screw the FOGLight wire into the coupling nut until it bottoms out. Make sure it is as tight as possible.
7. Push on the wire to get it up the hole until the collar is flush on the hanging wall.
8. To ensure the cam has locked pull gently on the exposed collar end, it should not move more than a few millimetres.
9. IF the FOGLight is not secure, pull on the release line and reset the position until it is secure.
10. Using a M4 nut driver screw in the nut on the install rod. The unit should start to tighten up against the hanging wall.
11. After a few turns you should hear and/or feel a snap.
12. Carefully continue turning the nut (about 1.5 to 2 complete revolutions) until the green light starts to flash. The unit is now armed. Check that the green light continues to flash slowly. If the red light flashes then the nut has been tightened too much. If this happens, loosen the nut and install a new unit on the line or completely remove the unit and wire and reinstall a complete new one.
13. Once the green light is slowly flashing, cut off the exposed nylon line as close to the collar as possible to prevent accidental removal or tampering.
14. Now that the unit is installed and activated, replace the rubber top seal in order to prevent water entering the unit and possibly causing a malfunction.

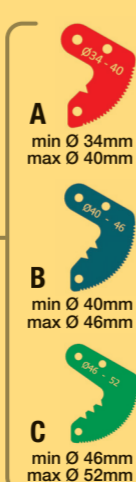
FOGLight selection:

The FOGLight currently is available with three cam sizes:

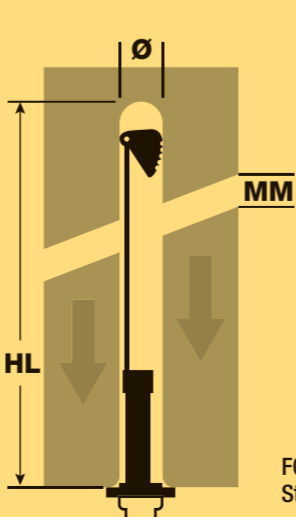
- **A (small)** – will work in a 34 to 40mm hole.
- **B (medium)** – will work in a 40 to 46 mm hole.
- **C (large)** – will work in a 46 to 52 mm hole. This size requires a washer for the FOGLight body.

① Calculate the required:

- **LENGTH (HL)**
This is the length of hole drilled in the rock measured in metres (m) and multiplied by 10 (eg. 3.5m becomes 35)
VALUES: Maximum value of 60 (6.0m)
- **CAM TYPE (Ø)**
The CAM is chosen according to the diameter (Ø) of hole drilled in the rock.
VALUES: A, B or C
- **DISPLACEMENT (MM)**
The amount of rock movement before FOGLight changes signal (FOGLight sensitivity). Measured in millimetres (mm) and multiplied by 10 (eg. 3.5mm becomes 35)
VALUES: 15, 25, 35, 45, 55, 65



② Generate a stock code using the formula:
JP-FL HL Ø MM



③ Example

- The hole length is 3.0m (HL) = 30
- The hole diameter (Ø) is 38mm CAM TYPE = A (Painted red)
- The displacement is 3.5mm DISPLACEMENT (MM) = 35

FOGLight Stock Code: **JP-FL30A35**

FOGLight warning codes and procedures:



GREEN FLASHING
Condition safe
Continue working



RED FLASHING
Potential movement
Report immediately

NOTE: Safety procedures and evacuation drills are different for every mine. Make sure you are familiar with yours!

ISO 9001:2008
International accreditation

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