

# NAYLER

J.H.NAYLOR LTD. WIGAN

## Bifold Safety Lamp 1



## Bifold Burner Lamp





## Bifold Burner 4



## Spiralarm



### THE SPIRALARM

An Automatic Detector  
of Combustible Gases in  
any atmosphere

ROBUST, SIMPLE AND  
ECONOMICAL

For the protection of life  
whenever inflammable gases  
are present the Spiralarm fills  
a long felt need. It is com-  
posed of a Minox Flame Safety  
Lamp of approved design. The  
steel gasans and gas-tight  
joints ensure that no ignition  
of explosive gases can be  
caused by the presence of the  
tuning flame. The Spiralarm is  
designed to meet the require-  
ments of Local Authorities,  
Petrol Companies, Collieries,  
works where inflammable  
gases are present, and for any  
undertaking where life is  
endangered by the presence  
of inflammable gases.

Full particulars obtainable from  
**J. H. NAYLOR LTD.**  
CENTRAL BRASS WORKS  
WIGAN



A Spiralarm „TYPE M“ was used for detecting explosive gas in the mine. The „TYPE S“ used in sewers. In der Lampe befand sich ein Bimetalkontakt. Dieser schloss, wenn er sich der Bimetalkontakt zu stark erhitzte (Gas) einen elektrischen Stromkreis. Dann leuchtete eine Batteriebetriebene Glühlampe im unteren Bereich der Lampe. Merkmal: kleines rotes Glas > M (mine) großes rotes Glas > S (sewers / Sanitär / Abwasserkanal)

## Catalog Safety Lamps and Gas Detectors 17.09.1933



To meet the requirements of the manager, foreman, deputies and head requirements, this lamp is made in the following types:—

1. Hildel Hunter Lamp in form with blue-platinized steel shield and steel gasses, rivet lock and ordinary ignition. Weight 250. Price 18.9
2. The same lamp but with aluminum shield. Weight 250. Price 19.9
3. As above, but with aluminum middle collar. Weight 250. Price 23.9
4. The same lamp as No. 1, but with aluminum bottom collar. Weight 250. Price 23.
5. As No. 4, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 250. Price 27.
6. As No. 1, but fitted with magnetic lock instead of rivet lock. Weight 250. Price 17.
7. As No. 6 with the addition of electric ignition. Weight 250. Price 28.6
8. A smaller lamp, 9 1/2" high instead of 12", taking a glass 13 x 24 mm. Weight 210. Price 18.9
9. The same as No. 8, but with aluminum shield and collar. Weight 210. Price 23.

Unless noted otherwise, the shield is fitted with deflector ring.

The Hildel Safety Lamp in all types is approved by the Board of Trade-Mines Department.

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10. As No. 10, but tested and guaranteed to be non-magnetic. Suitable for surveying. Weight 250. Price 28.

Any of the above lamps can be supplied with the addition of electric ignition at an extra charge of 1.0 per lamp.

11. A smaller lamp made in any of the above styles at the same prices. Only 9 1/2" high instead of 12" and taking a glass 13 x 24 mm and corresponding light in weight.

A lamp similar to No. 10 is this smaller type only weighs 115 lbs.

All the above lamps can be supplied with or without deflector ring riveted to the shield.

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The system of flame regulation in the Hildel Safety Lamp is most accurate. Actually the wicks do not move, but the burner tubes slide up and down. The height of the flame can be regulated with positive accuracy and will remain the same for 16 to 18 hours without any readjustment whatsoever. No matter how small a flame is wanted, the lamp will burn steadily. This applies even when a non-business flame is required.

In ordinary use, the Patent Hildel Hunter Lamp gives a good steady light, and only consumes one half-pint of fuel in 40 hours. The lamp is a little more expensive than most safety lamps, but it is so constructed it can be repaired in a few minutes.

The two burners are placed side by side in such a position that, when tilted to the left flame size, the two flames join together and give one good, broad, low-temperature flame. Throughout the shift the lamp gives one steady power and is particularly free from smoke.

This lamp has been tested in every high altitude and in conditions where the air is vitiated. It is a coal lamp, and its reports from users in various parts of the world are extremely good.

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### MARSAUT "E" (SHUT-OFF LAMP)

**Description:**

A specially designed deflector shield in blue-platinized steel or aluminum with rivet burner or aluminum top - steel gasses 20 x 20 mm or 28 x 20 mm, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without both gasses being in position. Approved quality glass, 30 x 40 mm. Cast brass or aluminum collar.

The vessel can either be that of our Hildel Hunter Lamp, the Marsaut "A" or Marsaut "N" lamps. The two last named can be supplied in brass or aluminum.

The middle collar to this lamp is fitted with a shut-off ring to close the air inlet holes. This ring is held in position by a spring and is closed by a slight movement in a clockwise direction. When this takes place the only air inlet is through the top of the burner and gas can be detected within 1/2" of the roof.

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### MARSAUT "A" & "B" APPROVED FLAME SAFETY LAMPS.

**Description, Marsaut "A":**

Blue-platinized steel shield, steel gasses 28 x 28 mm or 20 x 21 mm, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without both gasses being in position.

Approved quality glass 35 x 40 mm. Cast brass middle collar, with vertical slots, cast brass bottom collar, with one brass rivet fitted with the burner to take 1/2" wick. Flame regulation by means of parallel wire.

The lamp consumes 1 pint of oil in the ordinary use of the mine, gives a good steady power, is very strong in use, and gives 40 hours full flame to every full pint of oil.

All parts are interchangeable and repairs are easily carried out at the colliery.

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Marsaut "A" Lamps are approved by the Board of Trade-Mines Department.

**Marsaut "B" Lamps.**

These differ from Marsaut "A" lamps in the arrangement of the middle collar, deflector and shield.

The middle collar carries a deflector ring of suitable depth.

The lamp is suitable for the highest altitudes.

The shield is of the same type and is held in position by means of a lead rivet.

The vessel, burner, gasses, etc., are the same as in the Marsaut "A" lamp and prices are 6d. higher for each corresponding type.

Marsaut "B" lamps are not made in the smaller size as No. 12.

All Marsaut "B" lamps are approved by the Board of Trade-Mines Department.

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### MARSAUT "N" FLAME SAFETY LAMP

**Description:**

Blue-platinized steel shield, steel gasses, 28 x 28 mm or 20 x 21 mm, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without both gasses being in position.

Approved quality glass 35 x 40 mm. Cast brass middle collar with vertical slots and solder cast brass rivet.

Flame regulation by means of thread screw or parallel wire.

The lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner affords a marked improvement in lamps consuming mineral kerosene oil. It certainly reduces the tendency to smoke and the flame is not affected by any breeze due to expansion of oil in the lamp.

The burner tube is slightly adjustable. The wick consumes the same shape after a few hours, and will burn on the candle point.

A special grade of mineral kerosene oil with the addition of paraffin to the extent of one part to seven is the most suitable fuel for this lamp.

The lamp is supplied with standard gasses, 28 x 28 or 21 x 20 mm and can also be supplied with 28 x 20 mm gasses - slightly taller. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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HAZARD "N" FLAME SAFETY LAMP—Continued.

The Hazard "N" Lamp is a good lamp for the detection of gas. It gives a very good light and only consumes one half pint of fuel in 40 hours. It is particularly free from smoke. It is fitted with an filling valve and can be supplied with electric ignition and magnetic lock. It is available in several types as follows:—

21. Hazard "N" Lamp with blue plated steel shell and steel glass, steel lock and ordinary ignition. Weight 4lbs. Price 16/6
22. The same lamp, but with aluminium shell. Weight 3lbs. 10oz. Price 20/6
23. As above, but with aluminium shell and copper bottom. Weight 3lbs. 10oz. Price 22/6
24. The same lamp as No. 22, but with aluminium bottom. Weight 3lbs. 10oz. Price 23/6
25. As No. 24 but with copper glass and guaranteed non-susceptible to any action of H<sub>2</sub>. Price 25/6

Any of the above types can also be supplied with electric ignition at an increase of 1/6 and with magnetic lock at an increase of 1/6.

The Hazard "N" Lamp in all types is approved by the Board of Trade Mining Department.



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THE PATENT BIFOLD BURNER SAFETY LAMP.

**Description:**  
This plated steel shell, steel glass, 20 x 20 inch, or 20 x 22 inch, fitted with open flame burner of such design as to make it impossible to assemble the lamp without both glasses being in position.

Approved quality glass 20 x 40 inch. Cast brass middle collar with vertical slots. Cast brass bottom collar, cast brass cover fitted with patent double burner to take special circular wick.

Flame regulated by means of standard wick.

This lamp consumes paraffin, a very economical fuel easily obtained in all parts of the world at a low price. It never varies in quality and possesses all the qualities of a mineral product.

The Hazard Safety Lamp is used in all parts of the world and is economical in use, gives a high candle power and is easily repaired by the officer in command, all parts being interchangeable.



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