

NAYLER

J.H.NAYLOR LTD. WIGAN

Bifold Safety Lamp 1



Bifold Burner Lamp





J. H. Naylor of Wigan Marsaut type „E“ Bi fold burner ,one of only three Naylor lamps still approved for Officials use underground after the 1911 Mines & Quarries act wipe out of thousands of lamps deemed unfit for use (Photos Andy Jones)



Bifold Burner 4



Spiralarm



THE SPIRALARM

An Automatic Detector of Combustible Gases in any atmosphere

ROBUST, SIMPLE AND ECONOMICAL

For the protection of life wherever inflammable gases are present the Spiralarm fills a long felt need. It is composed of a Miner's Flame Safety Lamp of approved design. The steel casing and pneumatic joints ensure that no ignition of explosive gases can be caused by the presence of the wiring there. The Spiralarm is designed to meet the requirements of Local Authorities, Fens, Collieries, Collieries, works where inflammable gases are present, and for any underground where life is endangered by the presence of inflammable gases.

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

Telephone
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Telegrams
Naylor 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 Bimetallkontakt 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 managers, overseers, deputies and local requirements, this lamp is made in the following types:—

1. Bifold Miner Lamp in brass with the plated steel shield and steel casing, steel lock and safety ignition. Weight 25lb. Test Price 18/9
2. The same lamp but with aluminium shield. Weight 25lb. Test Price 19/9
3. As above, but with aluminium safety collar. Weight 25lb. 14oz. Price 21/9
4. The same lamp as No. 2, but with aluminium bottom collar. Weight 25lb. 11oz. Price 23/-
5. As No. 4, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 25lb. 11oz. Price 27/-
6. As No. 1, but fitted with magnetic lock instead of steel lock. Weight 25lb. 14oz. Price 17/-
7. As No. 4 with the addition of electric ignition. Weight 25lb. Test Price 28/6
8. A smaller lamp, 3 1/2in. high instead of 5 1/2in., taking a glass B3 x 3 1/2 in. Weight 25lb. 13oz. Price 18/9
9. The same as No. 8, but with aluminium shield and reflector. Weight 25lb. 4oz. Price 23/-

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

The Bifold Safety Lamp (in all types) is approved by the Board of Trade Mines Department.

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10. As No. 15, but tested and guaranteed to be non-magnetic. Suitable for surveying. Weight 25lb. 13oz. Price 25/-

Any of the above lamps can be supplied with the addition of electric ignition at an extra charge of 1/3 per lamp. The substitution of a magnetic lock instead of a steel lock can be done at an extra charge of 1/3 per lamp.

11. A smaller lamp made in any of the above styles at the same prices. Only 3 1/2" high instead of 5 1/2" and taking a glass B3 x 3 1/2 in. and correspondingly lighter in weight.

A lamp similar to No. 15 in this smaller type only weighs 11lb. 10oz.

All the above lamps can be supplied with or without detector ring fitted in the shield.

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The system of flame regulation in the Bifold Safety Lamp is most accurate. Actually the wires 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 14 to 16 hours without any re-adjustment whatever. The burner tube itself is flame is wanted, the lamp will burn steadily. This applies even when a non-business flame is required.

In ordinary use, the Patent Bifold Miner Lamp gives a good steady light, and only consumes one halfpint of fuel in 40 hours. The lamp is a little more expensive than most safety lamps, but it is so constructed in use that the user is quickly repaid by the extra safety.

The two burners are placed side by side in such a position that, when raised to the full flame size, the two flames join together and give one good, broad, luminous flame. Throughout the life of the lamp gives one steady power and is particularly free from smoke.

This lamp has been tested in very high altitudes and in conditions where the air is vitiated. It is a coal lamp, and the 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 defective shield in blue plated steel or aluminium with cast brass or aluminium top and bottom, 20 x 20 inch or 25 x 20 inch, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without both glasses being in position.

Approved quality glass, 20 x 40 or 25 x 40 inch. Cast brass or aluminium reflector.

The vessel can either be fitted of one Hildt burner lamp, the Marsaut "A" or Marsaut "B" lamps. The two last named can be supplied to burner or alcohol.

The shield collar in 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 cold air inlet is through the top of the burner and gas can be detected within 1/2 in. of the roof.

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

Description, Marsaut "A" :

Blue plated steel shield, steel gases, 20 x 20 inch or 25 x 20 inch, fitted with open flame lamps 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 shield collar with vertical slots and cast brass bottom collar, with cast brass vessel fitted with Hildt burner to take 1/2 inch. Flame regulation by means of pin/rod with.

The lamp consumes 1/2 lb of oil at the maximum allowed by the rules, gives a good candle power, is very simple in use, and gives no heat but there is very hot part at 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, reflector and shield.

The middle collar carries a deflector ring of suitable depth.

The lamp is suitable for the highest velocities.

The shield is of the best type and is held in position by means of a lead shot.

The vessel, burner, gases, 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 plated steel shield, steel gases, 20 x 20 inch or 25 x 20 inch, fitted with open flame lamps 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 shield collar with vertical slots and solid cast brass vessel.

Flame regulation by means of flange screw or pin/rod with.

This lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner shows a marked improvement in lamps consuming mineral oils. It certainly reduces the tendency to smoke and the flame is not pulled at any stage due to regulation of oil in the lamp.

The burner tube is slightly conical. The wick assumes the same shape after a few hours' use and because the candle power.

A special grade of mineral oils 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 gases, 20 x 20 or 25 x 20 inch and can also be supplied with 25 x 20 inch gases + shield + reflector. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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MARSAUT "N" FLAME SAFETY LAMP—Continued.

The Marsaut "N" Lamp is a great 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. Marsaut "N" Lamp, with blue plated steel shield and steel gases, with lock and ordinary ignition. Weight 4lb. Price 16/6
22. The same lamp, but with aluminium shield. Weight 2lb. 10oz. Price 20/6
23. As above, but with aluminium middle collar. Weight 2lb. 10oz. Price 22/6
24. The same lamp as No. 22, but with aluminium bottom collar. Weight 2lb. 10oz. Price 23/6
25. As No. 24 but with magnetic gases and guaranteed non-explosive. Suitable for carrying purposes. Price 22/6

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 Marsaut "N" Lamp (in all types) is approved by the Board of Trade Mines Department.

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THE PATENT BIPOD BURNER SAFETY LAMP

Description :

Blue plated steel shield, steel gases, 20 x 20 inch, or 25 x 20 inch, fitted with open flame lamps 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 shield collar with vertical slots. Cast brass bottom collar; cast brass vessel fitted with patent double burner to take special circular wick.

Flame regulation by means of flange screw.

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 natural product. The Hildt Safety Lamp is used in all parts of the world and is renowned in use, gives a high candle power and is easily repaired by the colliery (experts) all parts being interchangeable.

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Wetterlampen

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