

## Signal Beacon - LED

### Series 6162



www.stahl.de



06147E00

- > Versions
  - rotating mirror beacon
  - rotating beacon
  - beacon with double flash (9 + 5 J)
  - flashing beacon (15 J)
  - LED-continuous beacon
  - LED-rotating beacon
- > Seawater resistant aluminium enclosure with glass dome
- > Integrated Ex e connection chamber
- > Glass dome available in: signal yellow, red, orange and blue resp. clear
- > Available with
  - 20 W / 35 W halogen bulb or as
  - LED-continuous beacon / LED-rotating beacon



The R. STAHL Signal Beacon Series 6162 is approved for use in Ex Zones 1, 2, 21 and 22. All models feature an integrated "increased safety" wiring space. The rotating mirror beacons and the rotating beacons have an integrated wear resistant friction gear which creates 180 light signals per minute.

The wear-free LED beacons ensure an extremely high service life of up to 50,000 hours due to the innovative LED technology. In addition to the LED-continuous beacon, a LED-rotating beacon is also available. This LED-rotating beacon is maintenance-free thanks to the absence of any moving components.

The robust, seawater resistant aluminium enclosure ensures IP66 protection for all models.

|            | ATEX / IECEx / GOST |   |   |    |    |    |
|------------|---------------------|---|---|----|----|----|
| Zone       | 0                   | 1 | 2 | 20 | 21 | 22 |
| For use in |                     | x | x |    | x  | x  |

**WebCode 6162A**

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Selection Table

| Version                                                                                                                     | Rated operational voltage              | Lamp wattage | Temperature class | Max. surface temperature | Max. ambient temperature | Order number   | Art. no. | Weight<br>kg |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------|-------------------|--------------------------|--------------------------|----------------|----------|--------------|
| <br>06128E00<br>Rotating mirror beacon     | 24 V AC / DC,<br>50 ... 60 Hz          | 20 W         | T4<br>T4          | 105 °C<br>115 °C         | 40 °C<br>50 °C           | 6162/17-61-.11 | 120872   | 5.600        |
|                                                                                                                             |                                        | 35 W         | T3<br>T3          | 150 °C<br>160 °C         | 40 °C<br>50 °C           | 6162/17-62-.11 | 120863   | 5.600        |
|                                                                                                                             | 115 V AC,<br>50 ... 60 Hz              | 35 W         | T3<br>T3          | 150 °C<br>160 °C         | 40 °C<br>50 °C           | 6162/17-32-.11 | 120866   | 5.600        |
|                                                                                                                             | 230 V AC,<br>50 ... 60 Hz              | 20 W         | T4<br>T4          | 105 °C<br>115 °C         | 40 °C<br>50 °C           | 6162/17-11-.11 | 120871   | 5.600        |
|                                                                                                                             |                                        | 35 W         | T3<br>T3          | 150 °C<br>160 °C         | 40 °C<br>50 °C           | 6162/17-12-.11 | 120869   | 5.600        |
| <br>05759E00<br>Rotating beacon           | 24 V AC / DC,<br>50 ... 60 Hz          | 20 W         | T6<br>T5          | 80 °C<br>90 °C           | 40 °C<br>50 °C           | 6162/18-61-.11 | 120874   | 5.600        |
|                                                                                                                             |                                        | 35 W         | T4<br>T4          | 105 °C<br>115 °C         | 40 °C<br>50 °C           | 6162/18-62-.11 | 120864   | 5.600        |
|                                                                                                                             | 115 V AC,<br>50 ... 60 Hz              | 35 W         | T4<br>T4          | 105 °C<br>115 °C         | 40 °C<br>50 °C           | 6162/18-32-.11 | 120867   | 5.600        |
|                                                                                                                             | 230 V AC,<br>50 ... 60 Hz              | 20 W         | T6<br>T5          | 80 °C<br>90 °C           | 40 °C<br>50 °C           | 6162/18-11-.11 | 120873   | 5.600        |
|                                                                                                                             |                                        | 35 W         | T4<br>T4          | 105 °C<br>115 °C         | 40 °C<br>50 °C           | 6162/18-12-.11 | 120870   | 5.600        |
| <br>05759E00<br>Beacon with double flash | 24 V DC                                | 9 + 5 J      | T5<br>T5          | 85 °C<br>95 °C           | 40 °C<br>50 °C           | 6162/16-53-.11 | 120861   | 5.600        |
|                                                                                                                             | 115 V AC,<br>50 ... 60 Hz              | 9 + 5 J      | T5<br>T4          | 90 °C<br>100 °C          | 40 °C<br>50 °C           | 6162/16-23-.11 | 120865   | 5.600        |
|                                                                                                                             | 230 V AC,<br>50 ... 60 Hz              | 9 + 5 J      | T5<br>T5          | 85 °C<br>95 °C           | 40 °C<br>50 °C           | 6162/16-13-.11 | 120868   | 5.600        |
| <br>05759E00<br>Flashing beacon          | 24 V AC / DC (± 15 %),<br>50 ... 60 Hz | 15 J         | T6<br>T6          | 75 °C<br>75 °C           | 40 °C<br>50 °C           | 6162/15-64-.11 | 120877   | 5.600        |
|                                                                                                                             | 110 ... 127 V AC,<br>50 ... 60 Hz      | 15 J         | T5<br>T4          | 95 °C<br>105 °C          | 40 °C<br>50 °C           | 6162/15-44-.11 | 120875   | 5.600        |
|                                                                                                                             | 230 ... 240 V AC,<br>50 ... 60 Hz      | 15 J         | T6<br>T6          | 80 °C<br>80 °C           | 40 °C<br>50 °C           | 6162/15-74-.11 | 120876   | 5.600        |

#### Order Number Supplement

|                 |               |              |  |  |
|-----------------|---------------|--------------|--|--|
| Colour of glass | signal yellow | 6162/...-1.. |  |  |
|                 | clear         | 6162/...-2.. |  |  |
|                 | red           | 6162/...-3.. |  |  |
|                 | blue          | 6162/...-4.. |  |  |
|                 | orange        | 6162/...-6.. |  |  |

Note The optical beacons are supplied without mounting accessories and wire guard. These must be ordered separately!

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Selection Table

| Version                                                                                                                  | Colour of glass | Rated operational voltage         | Lamp wattage | Temperature class | Max. surface temperature | Max. ambient temperature | Order number   | Art. no. | Weight      |
|--------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|--------------|-------------------|--------------------------|--------------------------|----------------|----------|-------------|
| <br>12628E00<br>LED-continuous beacon   | signal yellow   | 24 V DC                           | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-55-111 | 201879   | kg<br>5.300 |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-95-111 | 201901   | 5.300       |
| <br>12629E00<br>LED-continuous beacon  | red             | 24 V DC                           | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-55-311 | 201880   | 5.300       |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-95-311 | 201902   | 5.300       |
| <br>12696E00<br>LED-continuous beacon | orange          | 24 V DC                           | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-55-611 | 203036   | 5.300       |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 5 W          | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/19-95-611 | 203037   | 5.300       |
| <br>12628E00<br>LED-rotating beacon   | signal yellow   | 24 V DC                           | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-55-111 | 201905   | 5.300       |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-95-111 | 201903   | 5.300       |
| <br>12629E00<br>LED-rotating beacon   | red             | 24 V DC                           | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-55-311 | 201906   | 5.300       |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-95-311 | 201904   | 5.300       |
| <br>12696E00<br>LED-rotating beacon   | orange          | 24 V DC                           | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-55-611 | 203034   | 5.300       |
|                                                                                                                          |                 | 115 ... 230 V AC,<br>50 ... 60 Hz | 3.6 W        | T6<br>T6<br>T5    | 70 °C<br>80 °C<br>90 °C  | 40 °C<br>50 °C<br>60 °C  | 6162/18-95-611 | 203035   | 5.300       |

Note

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#### Explosion Protection

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <b>Global (IECEX)</b> |                                                                               |
| Gas and dust          | IECEX PTB 06.0078<br>Ex de IIC T3 ... T6<br>Ex tD A21 IP66 T80 °C ... T160 °C |

|                      |                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Europe (ATEX)</b> |                                                                                                                                                         |
| Gas and dust         | PTB 06 ATEX 1037<br>Ex II 2 G Ex de IIC T*<br>Ex II 2 D Ex tD A21 IP 66 T*<br>* Temperature classes are dependent on lamp wattage (see selection table) |

#### Certificates and approvals

|              |                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------|
| Certificates | IECEX, ATEX, Kazakhstan (GOST-K), Russia (GOST-R), Serbia (IZP), Ukraine (GOST-U), Belarus (GOST-B) |
|--------------|-----------------------------------------------------------------------------------------------------|

#### Technical Data

|                           |                     |
|---------------------------|---------------------|
| <b>Electrical data</b>    |                     |
| Rated operational voltage | see selection table |

|                                 |                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Luminous Characteristics</b> |                                                                                                                                                                                                                                                        |
| Lamp wattage                    | see selection table                                                                                                                                                                                                                                    |
| Rotation speed                  | rotating mirror beacon: 180 rpm<br>rotating beacon: 60 rpm                                                                                                                                                                                             |
| Duty cycle                      | 100 %                                                                                                                                                                                                                                                  |
| Service life                    | rotating mirror beacon 5000 h (drive)<br>rotating beacon 5000 h (drive)<br>beacon with double flash 4x10 <sup>6</sup> flashes<br>flashing beacon 4x10 <sup>6</sup> flashes<br>LED-rotating beacon max. 50 000 h<br>LED-continuous beacon max. 50 000 h |

|                           |                     |
|---------------------------|---------------------|
| <b>Ambient conditions</b> |                     |
| Ambient temperature       | see selection table |

|                        |                                             |
|------------------------|---------------------------------------------|
| <b>Mechanical data</b> |                                             |
| Degree of protection   | IP66                                        |
| Protection class       | I (acc. to IEC/EN 60598)                    |
| Material               |                                             |
| Enclosure              | aluminium powder coated, seawater resistant |
| Dome                   | glass, temperature change resistant         |
| Wire guard             | stainless steel                             |
| Seal                   | NBR O-ring                                  |

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Assembly / Installation</b>        |                                                                                              |
| Cable entries                         | 1 x M20 x 1,5 (ø 6 ... 13 mm)<br>1 x M20 x 1,5 stopping plug<br>metal cable gland on request |
| Connection cross-section<br>L1, N, PE | 2.5 mm <sup>2</sup> finely-stranded<br>4 mm <sup>2</sup> solid                               |

#### Accessories and Spare Parts

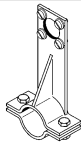
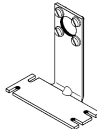
| Designation        | Illustration                                                                                    | Description                                                                           | Art. no. | Weight<br>kg |
|--------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|--------------|
| Halogen lamp G6.35 | <br>05003E00 | 20 W / 12 V 2 pc                                                                      | 120933   | 0.001        |
|                    |                                                                                                 | 20 W / 24 V 2 pc                                                                      | 120934   | 0.001        |
|                    |                                                                                                 | 35 W / 12 V 2 pc                                                                      | 120935   | 0.001        |
|                    |                                                                                                 | 35 W / 24 V 2 pc                                                                      | 120936   | 0.001        |
| Mounting plate     | <br>04279E00 | material: stainless steel,<br>includes mounting screws,<br>for wall or floor mounting | 120821   | 0.170        |

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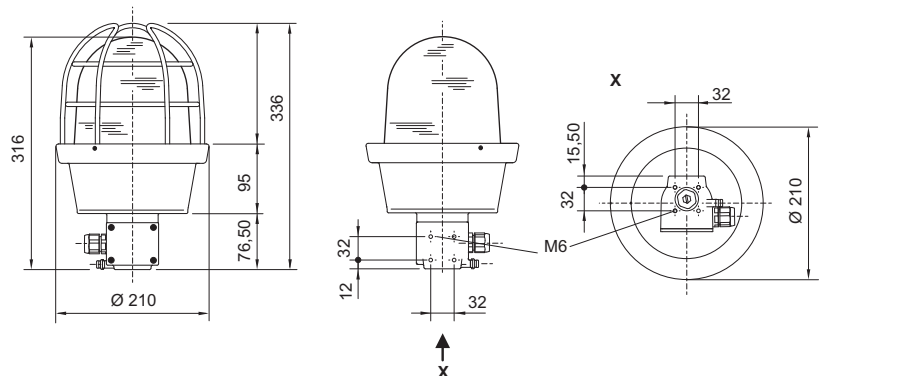
## Signal Beacon - LED Series 6162



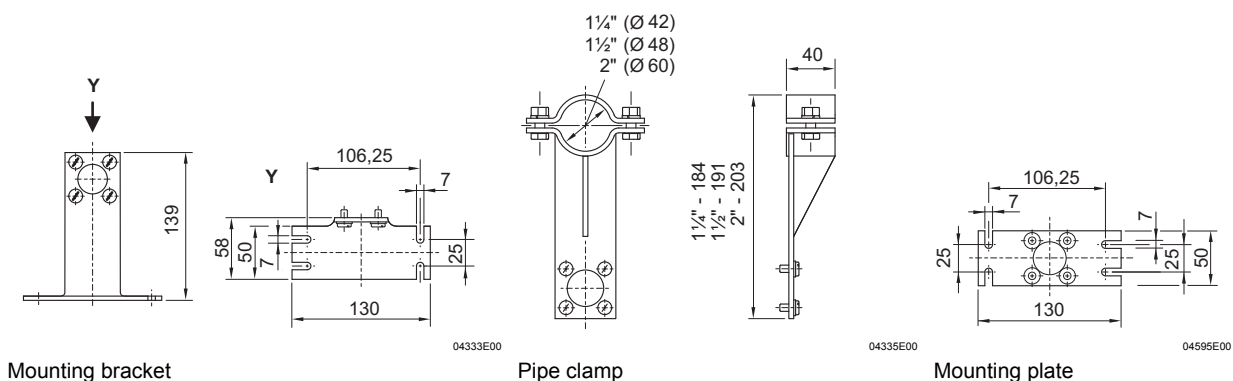
### Accessories and Spare Parts

| Designation      | Illustration                                                                       | Description                                            | Art. no.      | Weight<br>kg |
|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|---------------|--------------|
| Pipe clamp       |   | R 2"                                                   | <b>120921</b> | 0.600        |
|                  |                                                                                    | R 1 1/2"                                               | <b>120920</b> | 0.560        |
|                  |                                                                                    | R 1 1/4"                                               | <b>120919</b> | 0.520        |
| Mounting bracket |   | material: stainless steel,<br>includes mounting screws | <b>120930</b> | 0.450        |
| Wire guard       |   | material: stainless steel,<br>includes mounting screws | <b>120917</b> | 0.540        |
| Cable gland      |   | cable diameter 6 ... 13 mm                             |               |              |
|                  |                                                                                    | 8161/5-M20-13 1 piece                                  | <b>138518</b> | 0.012        |
|                  |                                                                                    | 8161/5-M20-13 50 pieces                                | <b>138454</b> | 0.600        |
| Stopping plug    |  | 8290/3-M20 1 piece                                     | <b>143522</b> | 0.005        |
|                  |                                                                                    | 8290/3-M20 100 pieces                                  | <b>143543</b> | 0.500        |

### Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



### Signal beacon Series 6162 Mounting accessories



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.