

## Signalling devices

STAHL

Audible signalling device Loudspeaker

In flameproof enclosure Increased safety

8494/C-S-EN-ST-12-00 Art. No. 242300



- Loudspeaker: Directional/max. 121 dB(A)
- Type of protection: Ex d with Ex e connection chamber
- Class: IP66/67 (IEC 60529)
- Corrosion-resistant polyamide enclosure
- Including stainless steel fixings

MY R. STAHL 8494A



The **8494 product series** is a range of 25 W or 15 W loudspeakers designed for use in hazardous and harsh environments. These are unique as they are constructed using antistatic polyamide which provides a lightweight, robust, corrosion-resistant enclosure. For ultimate flexibility, wattage, impedance and transformer variants with 25, 15, 6.5, 5, 2.5 and 1.5 W connections are available. The variant with the short trumpet comes in a compact enclosure and provides wide sound distribution.

The variant with the long trumpet provides an increased sound pressure level and improved audibility.

### Technical Data

#### Explosion Protection

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Area of application             | IECEx<br>European Union (ATEX)<br>USA<br>Canada |
| Application range (zones)       | 1, 2, 21, 22                                    |
| IECEx gas certificate           | IECEx PRE 14.0058X                              |
| IECEx gas explosion protection  | Ex de mb IIC T4 Gb                              |
| IECEx dust certificate          | IECEx PRE 14.0058X                              |
| IECEx dust explosion protection | Ex tb IIIC T105 °C Db                           |
| ATEX gas certificate            | PRE 14ATEX 5555X                                |
| ATEX gas explosion protection   | Ⓔ II 2 G Ex de mb IIC T4 Gb                     |
| ATEX dust certificate           | PRE 14ATEX 5555X                                |
| ATEX dust explosion protection  | Ⓔ II 2 D Ex tb IIIC T105 °C Db                  |
| Certificates                    | ATEX (PRE), Canada / USA (LC), IECEx (PRE)      |

#### Electrical Data

|                 |               |
|-----------------|---------------|
| Power           | 25 W          |
| Impedance       | 8 Ω           |
| Frequency range | 450 – 6000 Hz |

#### Acoustic Data

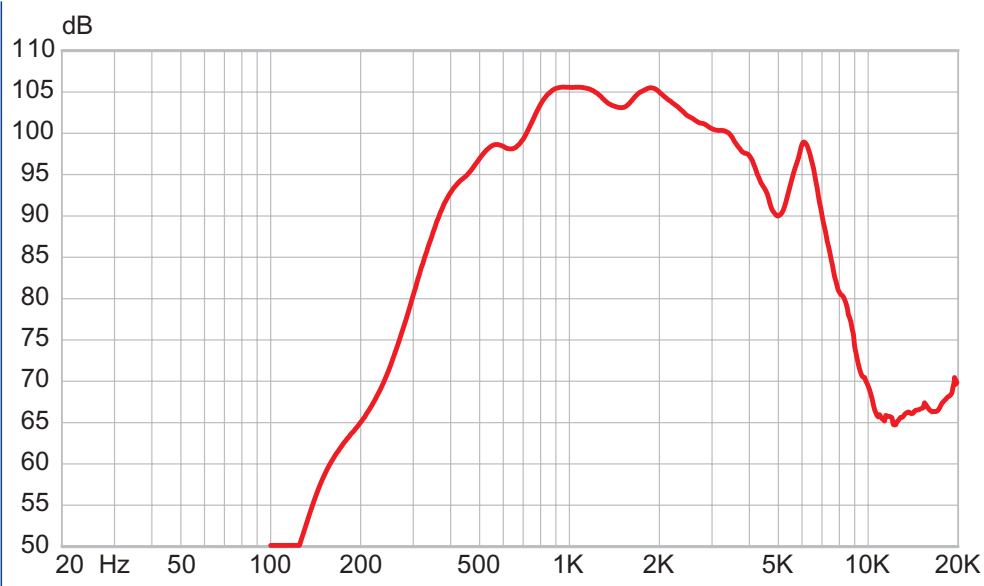
|                      |                      |
|----------------------|----------------------|
| Sound pressure level | max. 115 dB(A) @ 1 m |
|----------------------|----------------------|

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Sound pressure level vs frequency at  
1 W



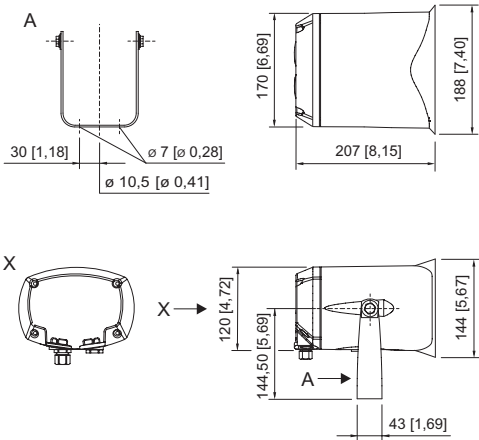
|                                           |                                |
|-------------------------------------------|--------------------------------|
| Ambient Conditions                        |                                |
| Ambient temperature                       | -50 °C ... +60 °C              |
| Mechanical Data                           |                                |
| Degree of protection (IP) (IEC 60529)     | IP66/IP67                      |
| Enclosure material                        | Polyamide, antistatic          |
| Enclosure colour                          | Black                          |
| Trumpet material                          | Polyamide, antistatic          |
| Max. solid connection terminals           | 4 mm²                          |
| Max. finely stranded connection terminals | 4 mm²                          |
| Width                                     | 188 mm                         |
| Height                                    | 144 mm                         |
| Length                                    | 207 mm                         |
| Flare size                                | Short trumpet                  |
| Weight                                    | 2.2 kg                         |
| Weight                                    | 4.85 lb                        |
| Mounting / Installation                   |                                |
| Connection type                           | Spring clamp terminal          |
| Mounting part material                    | Polyamide, antistatic          |
| Note about mounting                       | Pre-mounted                    |
| Components                                |                                |
| Drilled holes                             | 2 x M20                        |
| Cable glands and entries                  | can be ordered as an accessory |
| Stopping plugs                            | 2 x dust cap                   |

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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Hazardous area loudspeaker – short trumpet  
Bracket (A) supplied as standard

Accessories

| Plastic cable gland                                                                |                                                                                                    | Art. No. |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------|
|   | 8161/7-M20-1304, Ex e<br>Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm<br>Lot size 50 pieces | 239156   |
|                                                                                    |                                                                                                    |          |
| Stopping plug                                                                      |                                                                                                    | Art. No. |
|  | 8290/3-M20<br>Plastic, M20 x 1.5<br>Lot size 1 piece                                               | 143522   |
|                                                                                    | 8290/3-M20<br>Plastic, M20 x 1.5<br>Lot size 100 pieces                                            | 285773   |

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.