Technical Specifications

**Effective detection range**
- 0...180 m
- 0...230 m

**Light source**
- IRED

**Light type**
- modulated infrared light
- modulated red light

**Alignment aid**
- Telescopic sight, frontal red LED flashing,
- off with Signal > sufficient stability control

**Transmission mode**
- FSK

**Diameter of the light spot**
- 6300 mm at a distance of 350 m
- 8000 mm at a distance of 230 m

**Diameter of the light spot**
- 2°, receiver 5°

**Transmission mode**
- FSK

**Data sampling blanking**
- emitter deactivation for +UH, receiver deactivation TTL-compatible

**Data rate**
- 0...19.2 kBit/s

**Interface type**
- RS 232, RS 422, CL20 mA active/passive switchable

**Output of the pre-fault indication**
- 2 PNP-outputs, short-circuit proof, 30 V DC 0.1 A
- activated for single or sufficient stability control

**Measurement output**
- 2.5...6 V DC, max. 10 mA,
- single stability control 3.5 V
- sufficient stability control 5 V

**Ambient temperature**
- -20...60 °C (-4...122 °F)
- -30...50 °C (-22...122 °F) with heated housing

**Protection degree**
- IP65

**Connection**
- 4 x M16 cable glands, spring terminals in the terminal compartment

**Housing**
- aluminium

**Optical face**
- Plastic lenses, glass windows

**Standards**
- EN 60947-5-2

**Approvals**
- CE
Sensing Characteristics

Relative received light strength

<table>
<thead>
<tr>
<th>Distance X [m]</th>
<th>Stability control</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10000</td>
</tr>
<tr>
<td>1</td>
<td>1000</td>
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<tr>
<td>10</td>
<td>100</td>
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<tr>
<td>100</td>
<td>10</td>
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<tr>
<td>200</td>
<td>1</td>
</tr>
<tr>
<td>300</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td></td>
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</tbody>
</table>

Characteristic response curve

<table>
<thead>
<tr>
<th>Distance X [m]</th>
<th>Offset Y [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
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<td>100</td>
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<td>300</td>
</tr>
<tr>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>400</td>
<td>400</td>
</tr>
</tbody>
</table>

Diagrams

- Relative received light strength
- Characteristic response curve
Option:

1. RX-P  RS 422 data+ (B-input)
2. RX-N  RS 422 data- (A-input)
3. GNDI  Data ground, insulated
4. TX-P  RS 422 data+ (B-output)
5. TX-N  RS 422 data+ (A-output)
6. GNDI
7. RX-DIS Disable TTL
8. RX232 RS 232 input
9. TX232 RS 232 output
10. CL-IN+  20 mA input
11. CL-IN-  20 mA input
12. CL-OUT+  20 mA output
13. CL-OUT-  20 mA output
14. TX-DIS-  Emitter deactivation TTL
15. Alarm 1  (single stability control)
16. Alarm 2  (sufficient stability control)
17. Analog  Measuring output 2.5 V ... 6 V
18. TX-DIS  Emitter deactivation
19. +UB
20. +UB
21. 0 V
22. 0 V
### Accessories

**Mounting Bracket Model OMH-DAD10**

For DAD15-8-P series.

![Mounting Bracket Model OMH-DAD10](image1)

**Mounting Bracket Model OMH-LS230-DA**

Included with LS230 optical data couplers, shown below.

![Mounting Bracket Model OMH-LS230-DA](image2)

**Mounting Bracket Model OMH-LS610-01**

For LS610, LS611, and LS680 series. Allows fine adjustments in vertical and horizontal axes. LS610 quickly and securely mounts to bracket by spring clamp.

![Mounting Bracket Model OMH-LS610-01](image3)

**Direct Mounting set (4 threaded M4 inserts)**

Model: OMH-LS610-02

![Direct Mounting set (4 threaded M4 inserts) Model: OMH-LS610-02](image4)