These sensors have scratch-resistant optics and the emitted light can be switched off. They use the transit time measurement principle to measure the distance between the sensor and the object. Using a suitable reflector at the object, a highly accurate position measurement at large distances is also possible. The configurations are selected using a menu and can be protected by a password.
Ctrl. Panel

21 = Mode Button
60 = Display

Complimentary Products

Analog Evaluation Unit AW02
Protection Housing Set ZST-NN-02
Reflector, Reflex Foil
Serial Interface Adapter S232W3

Table 1

<table>
<thead>
<tr>
<th>Working Distance</th>
<th>0 m</th>
<th>40 m</th>
<th>100 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Spot Diameter</td>
<td>5 mm</td>
<td>80 mm</td>
<td>&lt; 200 mm</td>
</tr>
</tbody>
</table>

Feasible reflector distance

Reflector type, mounting distance

<table>
<thead>
<tr>
<th>Reflector Type</th>
<th>Mounting Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG100BA</td>
<td>5...100 m</td>
</tr>
<tr>
<td>RF50S</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>RF25S</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>RF508</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>RF258</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>RF4050</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>ZRAF07K01</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>ZRAF08K01</td>
<td>0.2...40 m</td>
</tr>
<tr>
<td>ZRDF03K01</td>
<td>0.2...40 m</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

Legend

- Supply Voltage +
- Supply Voltage 0V
- Supply Voltage (AC Voltage)
A Switching Output (1,2,3,...) NO
A+ Switching Output (1,2,3,...) NC
V Contamination/Error Output (NO)
V+ Contamination/Error Output (NC)
E Input (analog or digital)
T Teach Input
Z Time Delay (activation)
S Shielding
Rk0 RS-232 Receive Path
Th0 RS-232 Send Path
R2Y Ready
GND Ground
CL Clock
EA Output/Input programmable
@3D-Link

U Test Input
U+ Test Input inverted
W Trigger Input
O Analog Output
O+ Ground for the Analog Output
RG Block Discharge
Aw Valve Output
A Valve Control Output +
V Valve Control Output 0V
EY Synchronization
E+ Receiver Line
S+ Emitter Line
S+ Grounding
Sdr Switching Distance Reduction
USB+ USB data +
USB- USB data -
Ra Interfaces-Bus A(x)/B(y)
Rm Emitted Light disengagable

Wire Colors according to DIN IEC 757

- Black (BK)
- Brown (BN)
- Red (RD)
- Orange (O)
- Yellow (YE)
- Green (GM)
- Blue (BU)
- Violet (VT)
- Grey (G)
- White (WH)
- Pink (FX)
- Green Yellow (GM+E)