A reflector must be used in combination with these sensors. They can be installed in all kinds of industrial environments thanks to ample functional reserve. Even reflective objects can be reliably recognized through the use of polarized light.
1 = Transmitter Diode
2 = Receiver Diode

Screw M3 = 1 Nm

Legend
- PT = Platinum measuring resistor
- = not connected
U = Test Input
O = Test Input Inverted
IN = Trigger Input
O = Analog Output
O = Ground for the Analog Output
H = Block Discharge
M = Valve Output
P = Valve Control Output 0 V
SY = Synchronization
+/− = Receiver/Line
+/− = Emitter/Line
G = Grounding
R = Switching Distance Reduction
+/− = Ethernet Receive Path
+/− = Ethernet Send Path
I = Interfaces-Bus A (+)/B(−)
L = Emitted Light Disengageable
M = Magnet activation
IN = Input confirmation
OM = Contactor Monitoring
A/A (TTL) = Encoder A/A (TTL)
B/B (TTL) = Encoder B/B (TTL)

Wire Colors according to DIN IEC 757
- Black
- Brown
- Red
- Orange
- Yellow
- Green
- Blue
- Violet
- Grey
- White
- Pink
- Green/Yellow

Specifications are subject to change without notice

Table 1
<table>
<thead>
<tr>
<th>Working Distance</th>
<th>0,2 m</th>
<th>0,5 m</th>
<th>4 m</th>
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</thead>
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<tr>
<td>Spot Diameter</td>
<td>14 mm</td>
<td>40 mm</td>
<td>250 mm</td>
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Feasible reflector distance

<table>
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<tr>
<th>Reflector type, mounting distance</th>
<th>RQ100BA</th>
<th>RE18040BA</th>
<th>RE848BA</th>
<th>RH655BA</th>
<th>RE5151BM</th>
<th>RR50_A</th>
<th>RE6040BA</th>
<th>RE8222BA</th>
<th>RR34_M</th>
<th>RE3220BM</th>
<th>RE5210BM</th>
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</thead>
<tbody>
<tr>
<td>RQ100BA</td>
<td>0,02...4,5 m</td>
<td>0,04...3,5 m</td>
<td>0,02...4 m</td>
<td>0,03...4 m</td>
<td>0,01...4 m</td>
<td>0,02...2,8 m</td>
<td>0,015...3,2 m</td>
<td>0,01...2,1 m</td>
<td>0,02...1,6 m</td>
<td>0,015...1,5 m</td>
<td>0,01...1 m</td>
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