Reliable reading and evaluation of Data Matrix codes.

Spotlight and diffuser for the Data Matrix sensor.

- High reading reliability for needled codes.
- Optimum choice for rough surfaces.
- Reliable for reflective, structured and rounded surfaces.
- Brilliant reading results for lasered codes.
- Small and robust design.

Increased reading reliability for your applications.

**Spotlight**

The external illumination ensures that needled codes on rough or shiny metals (such as crankshafts or injection pumps) so far difficult to read, can now be reliably evaluated by the Data Matrix sensor.

**Diffuser for the Data Matrix reader**

The diffuser for the Data Matrix reader guarantees optimum reading reliability of the Data Matrix code. Brilliant reading results are achieved, especially on very reflective, rounded or structured surfaces such as blister packs or lasered codes on a gear.
Applications:
Reading of Data Matrix codes to ECC200

<table>
<thead>
<tr>
<th>Operating voltage [V]</th>
<th>Operating temperature [°C]</th>
<th>I₀ normal light intensity [mA]</th>
<th>I₀ high light intensity [mA]</th>
<th>Protection</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spotlights transmitter red light 630 nm</td>
<td>24 DC ± 10 %</td>
<td>0...50</td>
<td>180</td>
<td>90</td>
<td>IP 65, III</td>
</tr>
</tbody>
</table>

Other technical data
Spotlight O2D909

- Reverse polarity protection
- Overload protection
- Temperature protection

Storage temperature
max. pulse length: 50 ms;
max. mark-to-space ratio: 1/10

Material
Housing: aluminium
Lens: PMMA

Function display
Illumination state
Operation
Excess temperature / overload

LED
1 x yellow
1 x green
1 x red

Connection
M12 connector, gold-plated contacts

Wiring diagram

Dimensions

Distance to the Data Matrix code [mm] > 10

Material
Housing: aluminium
Lens: PMMA

Use with
Data Matrix code readers (to be ordered separately)
type

O2D104
O2D105
O2D106
O2D107

For further technical data please go to: www.ifm-electronic.com