Food industry

Protected by rugged stainless steel V4A housing with LCP front cap, the uprox®+ sensors of the Wash-Down series are IP68/IP69K compliant and resist temperatures of -40 °C to +100 °C. Furthermore, the series is completed by the rectangular type Q42 made of special, detergent resistant PA12.

Automotive industry

The TF80i coated threaded barrel versions are the best choice for rough environments. They are optimally protected against weld-spatter and drillings and thus resist mechanical strain. The absence of a ferrite core makes the sensors immune to interferences caused by strong magnetic fields.

Assembly and handling industry

The smaller versions of the uprox®+ sensors comply with the requirements of the assembly and handling industry. The rectangular versions Q8SE, Q10S, Q12, Q08 and CP08 can be integrated optimally in any system and ensure high switching distances on steel, stainless steel and aluminium.

Transport and handling

TURCK offers tool-free alignment for the transport handling. The rectangular sensors CK40, QV40 and Q80 feature typical switching distances and can be integrated in any system thanks to the excellent mounting options.

Overview – Housing styles

<table>
<thead>
<tr>
<th>Housing style</th>
<th>Dimensions</th>
<th>Connection</th>
<th>Sensing range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EH6,5</strong></td>
<td>49 mm</td>
<td>M8 x 1 Cable PUR</td>
<td>4 mm</td>
</tr>
<tr>
<td><strong>EG08</strong></td>
<td>57 mm, 42 mm</td>
<td>M8 x 1 Cable PUR</td>
<td>2 mm</td>
</tr>
<tr>
<td><strong>M12</strong></td>
<td>52 mm, 62, 80, 100 mm, 52, 64 mm</td>
<td>M12 x 1 Cable PUR</td>
<td>4 mm</td>
</tr>
<tr>
<td><strong>Q08</strong></td>
<td>32 x 20 x 8 mm</td>
<td>M8 x 1 Cable PUR</td>
<td>8 mm</td>
</tr>
<tr>
<td><strong>QP08</strong></td>
<td>32 x 20 x 8 mm</td>
<td>M8 x 1 with cable Cable PUR</td>
<td>10 mm</td>
</tr>
<tr>
<td><strong>Q8SE</strong></td>
<td>40 x 8 x 8 mm</td>
<td>M8 x 1 Cable PUR</td>
<td>4 mm</td>
</tr>
<tr>
<td><strong>Q10S</strong></td>
<td>27.8 x 16 x 10.2 mm</td>
<td>M8 x 1 with cable Cable PUR</td>
<td>5 mm</td>
</tr>
<tr>
<td><strong>Q12</strong></td>
<td>40 x 26 x 12 mm</td>
<td>M8 x 1 M12 x 1 Cable PUR</td>
<td>5 mm</td>
</tr>
<tr>
<td><strong>Q42</strong></td>
<td>67.7 x 42.5 x 42.5 mm</td>
<td>M12 x 1</td>
<td>50 mm</td>
</tr>
<tr>
<td><strong>Q80</strong></td>
<td>92 x 80 x 40 mm</td>
<td>M12 x 1</td>
<td>50 mm</td>
</tr>
</tbody>
</table>

Advantages for all industrial applications!

Sense it! Connect it! Bus it! Solve it!

To get all product information, just scan the QR code with a smartphone or webcam.

www.turck.com

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www.turck.com
Inductive Factor 1 sensors

uprox®+ sensors are a proof of TURCK's innovative strength. We have successfully optimized their performance range to meet the increasing demands of our customers. Profit from the unique plus points of the new generation sensors!

Maximum freedom
- Effective switching and proximity range due to maximum operating distance
- Partial embedding or recessed mounting provide highest freedom for system set-up
- Minimum maintenance due to an intelligently streamlined product range

High system availability
- Less mechanical damage and increased safety due to recessed mounting
- Less damage during the cleaning process. Effective protection against ingress of cleaning liquids is achieved by a novel double sealing system between front cap, threaded barrel and connector insert. As a result, the system’s fail-safety is enhanced
- Prevention of down-times due to the high damage resistance of the sensor materials and to an absolute vacuum and high back pressure
- Excellent EMC safety and magnetic field immunity
- Material suitability for the food industry certified by an independent test laboratory (Henkel Ecolab)

Excellent EMC safety and magnetic field immunity
- The uprox®+ sensors comply with the strict requirements of the currently valid product norm EN 60947-5-2 for proximity sensors. Even the high requirements of the norm EN 61000-4-6 (conducted interference) are easily fulfilled by the uprox®+ sensors.
- uprox®+ sensors do not incorporate a ferrite core and are thus not susceptible to strong magnetic fields.

Extremely service-friendly
- Simple adjustment due to maximum operating distance
- Partial embedding or recessed mounting imprereses highest freedom for system set-up
- Minimum maintenance due to an intelligently streamlined product range

Efficient standardization
- The entire range of applications is effectively covered with only a few sensor types.
- Low average prices thanks to the elimination of special devices
- Reduced training period due to a lean product program

Maximum operating distance Factor 1
Owing to their novel patented coil technology, uprox®+ sensors feature a switching distance which is up to 250% higher than that of conventional inductive sensors with a comparable signal output. Make use of this outstanding performance to optimize your applications!

In terms of metal detection, the innovative uprox®+ sensors set new benchmarks. They detect materials such as iron, stainless steel, copper, aluminium and brass at the same distance and with the highest precision.

Sensor sealing Resistance
- A special double-lip seal in the front cap and at the connector insert prevents the ingress of liquids, even during high pressure cleaning procedures. Hence, uprox®+ sensors even exceed the requirements of the protection ratings IP68 and IP69K by far!

Sensor materials
- The materials of the WD-series, used in particular for the threaded barrel (V4A; 1.4404; 316L) and the front cap (LCP Vectra C130) guarantee resistance to all common acid and alkaline detergents and disinfectants.
Inductive Factor 1 sensors

Efficient standardization
- A wide range of variants provides flexibility in application.
- Easy adjustment due to maximum operating distance.
- Partial embedding or recessed mounting provides highest freedom for system set-up.
- Minimum maintenance due to an intelligently streamlined product range.

Maximum freedom
- Simple adjustment due to maximum operating distance.
- Partial embedding or recessed mounting provide highest freedom for system set-up.
- Minimum maintenance due to an intelligently streamlined product range.

High system availability
- Less mechanical damage and extended service life.
- Less damage during the cleaning process.
- Effective protection against ingress of cleaning liquids is achieved by a novel double sealing system between front cap, threaded barrel and connector insert.
- Prevention of down-times due to the modular design of the sensor materials to acid and alkaline cleaning agents and disinfectants.
- Faster repair times based on sufficient availability of spare parts at lowest cost.
- High system availability due to excellent EMC properties.

Excellent EMC safety and magnetic field immunity
- The uprox®+ sensors comply with the strict requirements of the currently valid product norm EN 60947-5-2 for proximity sensors. Even the high requirements of the norm EN 61000-4-6 (conducted interference) are easily fulfilled by the uprox®+ sensors.
- The uprox®+ sensors do not incorporate a ferrite core and are thus not susceptible to strong magnetic fields.

Extremely service-friendly
- Simple adjustment due to maximum operating distance.
- Minimum maintenance due to an intelligently streamlined product range.
- High system availability due to excellent EMC properties.

Excellent sealing and resistance
- A special double-lip seal in the front cap and at the connector insert prevents the ingress of liquids, even during high pressure cleaning procedures. Hence, uprox®+ sensors even exceed the requirements of the protection ratings IP68 and IP69K by far!
- The materials of the WD-series, used in particular for the threaded barrel (V4A; 1.4404; 316L) and the front cap (LCP Vectra C130) guarantee resistance to all common acid and alkaline detergents and disinfectants.

High-performance distance
- Owing to their novel patented coil technology, uprox®+ sensors feature a switching distance which is up to 250% higher than that of conventional inductive sensors with a 50% reduced switching distance. Make use of this outstanding performance to optimize your applications.

In terms of metal detection, the innovative uprox®+ sensors set new benchmarks. They detect materials such as iron, stainless steel, copper, aluminium and brass at the same distance and with the highest precision.

Partial embedding of non-flush sensors
- Non-flush mounting of flush sensors
- Unique mounting flexibility of uprox®+ sensors is achieved with embedded pre-damping protection. In contrast to conventional sensors with a ferrite core, free zones can be much smaller. Non-flush threaded barrel sensors can be mounted up to the edge of the thread with reduced switching distance.

The new uprox®+ sensors only require small free zones for installation. Recessed mounting by half a thread turn provides even more mechanical protection – for absolute safety in all fitting positions!

Sensor sealing
- The sealing of the sensor avoids ingress of liquids, even during high pressure cleaning procedures. Hence, uprox®+ sensors even exceed the requirements of the protection ratings IP68 and IP69K by far!
Inductive Factor 1 sensors

Maximized freedom
- A wide range of options provide for maximum freedom of construction.
- The complete range of accessories offers a multitude of solutions for all applications.
- Simple mounting with only a few accessories.

High system availability
- Low mechanical damage and maintenance requirements due to minimum maintenance needs.
- Low damage during the cleaning process.
- Effective protection against ingress of cleaning liquids is achieved by partially recessed or flush mounting, which reduces the risk of contamination.
- Prevention of damage during disassembly.
- Less mechanical damage and increased safety due to recessed mounting.
- Less damage during the cleaning process. Effective protection against the ingress of cleaning liquids is achieved by partially recessed or flush mounting, which reduces the risk of contamination.
- Prevention of damage during disassembly.
- High system availability due to the high degree of freedom.
- Excellent EMC robustness.

Extremely service-friendly
- Simple adjustment due to maximum operating distance.
- Partial or fully embedded sensors provide highest freedom for system set-up.
- Minimum maintenance due to an intelligently streamlined product range.
- Efficient standardization:
  - The entire range of applications is effectively covered with only a few sensor types.
  - Low average prices thanks to the elimination of special devices.
  - Reduced training period due to a lean product program.

Maximum operating distance Factor 1
Owing to their novel patented coil technology, uprox®+ sensors feature a switching distance which is up to 250% higher than that of conventional inductive sensors with a comparable detection distance. Make use of this outstanding performance to optimize your applications!

In terms of metal detection, the innovative uprox®+ sensors set new benchmarks. They detect materials such as iron, stainless steel, copper, aluminium and brass at the same distance and with the highest precision.

Partial embedding of non-flush sensors
Non-flush mounting of flush sensors

Unique mounting flexibility of uprox®+ sensors is achieved with embedded pre-damping protection. In contrast to conventional sensors with a ferrite core, free zones can be much smaller. Non-flush threaded barrel sensors can be mounted up to the edge of the thread with reduced switching distance.

The new uprox®+ sensors only require small free zones for installation. Recessed mounting by half a thread turn provides even more mechanical protection – for absolute safety in all fitting positions!

Excellent EMC safety and magnetic field immunity
The uprox®+ sensors comply with the strict requirements of the currently valid product norm EN 60947-5-2 for proximity sensors. Even the high requirements of the norm EN 61000-4-6 (conducted interference) are easily fulfilled by the uprox®+ sensors.

Exclusively non-reinforced: uprox®+ sensors do not incorporate a ferrite core and are thus not susceptible to strong magnetic fields.

Sensor sealing
A special double-lip seal in the front cap and at the connector insert prevents the ingress of liquids, even during high pressure cleaning procedures. Hence, uprox®+ sensors even exceed the requirements of the protection ratings IP68 and IP69K by far!

The materials of the WD-series, used in particular for the threaded barrel (V4A; 1.4404; 316L) and the front cap (LCP Vectra C130) guarantee resistance to all common acid and alkaline detergents and disinfectants.
Inductive Factor 1 sensors

uprox®+ sensors are a proof of TURCK's innovative strength. We have successfully optimized their performance range to meet the increasing demands of our customers. Profit from the unique plus points of the new generation sensors!

**Maximum freedom**
- Simple mounting with only a few accessories
- Partial embedding or recessed mounting provide highest freedom for system set-up
- Maximum freedom – Avoidance of construction faults – Avoidance of unnecessary conflicts between mechanical and electrical systems
- Simple mounting with only a few accessories

**High system availability**
- Less mechanical damage and increased safety due to recessed mounting
- Less damage during the cleaning process
- Partial embedding of non-flush sensors
- Lower average prices due to the elimination of special devices
- Reduced training period due to a lean product program

**Extremely service-friendly**
- Simple adjustment due to maximum operating distance
- Minimum maintenance due to an intelligently streamlined product range
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**Efficient standardization**
- The entire range of applications is effectively covered with only a few sensor types.
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**Maximum operating distance Factor 1**
Owing to their novel patented coil technology, uprox®+ sensors feature a switching distance which is up to 250% higher than that of conventional inductive sensors with a comparable nominal current. The new generation sensors are dimensioned to any standard equivalent of the same size. Make use of this outstanding performance to optimize your applications!

In terms of metal detection, the innovative uprox®+ sensors set new benchmarks. They detect materials such as iron, stainless steel, copper, aluminium and brass at the same distance and with the highest precision.

**Partial embedding of non-flush sensors**
Non-flush mounting of flush sensors

Unique mounting flexibility of uprox®+ sensors is achieved with embedded pre-damping protection. In contrast to conventional sensors with a ferrite core, free zones can be much smaller. Non-flush threaded barrel sensors can be mounted up to the edge of the thread with reduced switching distance.

The new uprox®+ sensors only require small free zones for installation. Recessed mounting by half a thread turn provides even more mechanical protection – for absolute safety in all fitting positions!

**High pressure steam jet cleaning according to DIN 40050-9 following EN 60529**
- IP68 including IP67: – 24 hrs. continuous storage at +70 °C – 24 hrs. continuous storage at -25 °C – 7 days submersion at a depth of 1 m – 10 temperature shock cycles from +70 °C to -25 °C, Dwell cycle per temperature: 1 hour
- IP69K: suited for high pressure steam jet cleaning acc. to DIN 40050-9 following EN 60529

**Excellent EMC safety and magnetic field immunity**
The uprox®+ sensors comply with the strict requirements of the currently valid product norm EN 60947-5-2 for proximity sensors. Even the high requirements of the norm EN 61000-4-6 (conducted interference) are easily fulfilled by the uprox®+ sensors.

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Food industry

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Transport and handling

TURCK offers optimized versions for the internal handling. The rectangular versions CK40, QV40 and Q80 feature highest switching distances and can be integrated tool-free in any system thanks to the toolless mounting option.

Overview – Housing styles

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<tbody>
<tr>
<td>GH60 42 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GHH 42 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH6L 42 mm x 62 mm</td>
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<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GTHH 42 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH8 30 mm x 46 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GHH8 30 mm x 46 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
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<tr>
<td>GH8L 30 mm x 46 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH10 28 mm x 56 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
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</tr>
<tr>
<td>GHH10 28 mm x 56 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH10L 28 mm x 56 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH12 28 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GHH12 28 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
<tr>
<td>GH12L 28 mm x 62 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

Advantages for all industrial applications!

Automotive industry

Due to their slender design, the TF80i coated threaded barrel versions are the best choice for rough environments. They are optimally protected against weld-spatter and drillings and thus resist mechanical strain. The absence of a ferrite core makes the sensors immune to interferences caused by surrounding magnets.

INDUCTIVE FACTOR 1 SENSORS

Advantages for all industrial applications!

Assembly and handling industry

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Transport and handling

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<tr>
<td>GH8 30 mm x 46 mm</td>
<td>Connector M8 x 1</td>
<td>Cable F05</td>
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<tr>
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Transport and handling

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Automotive industry

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Advantages for all industrial applications!

INDUCTIVE FACTOR 1 SENSORS

Advantages for all industrial applications!

Cylindrical versions:

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<th>Dimensions</th>
<th>Connection</th>
<th>Sensing range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH6,5</td>
<td>49 mm</td>
<td>Connector M8 x 1</td>
<td>2 mm</td>
</tr>
<tr>
<td>EG08</td>
<td>49 mm</td>
<td>Connector M8 x 1</td>
<td>6 mm</td>
</tr>
<tr>
<td>M12</td>
<td>52 mm</td>
<td>Connector M8 x 1</td>
<td>4 mm</td>
</tr>
<tr>
<td>M18</td>
<td>52 mm</td>
<td>Connector M12 x 1</td>
<td>8 mm</td>
</tr>
<tr>
<td>M30</td>
<td>62 mm</td>
<td>Connector M12 x 1</td>
<td>15 mm</td>
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</table>

Rectangular versions:

<table>
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<tr>
<th>Housing style</th>
<th>Dimensions</th>
<th>Connection</th>
<th>Sensing range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q08</td>
<td>32 x 20 x 8 mm</td>
<td>Connector M8 x 1</td>
<td>95 mm</td>
</tr>
<tr>
<td>QP08</td>
<td>32 x 20 x 8 mm</td>
<td>Connector M8 x 1</td>
<td>10 mm</td>
</tr>
<tr>
<td>Q8SE</td>
<td>40 x 8 x 8 mm</td>
<td>Connector M8 x 1</td>
<td>4 mm</td>
</tr>
<tr>
<td>Q10S</td>
<td>27.8 x 16 x 10.2 mm</td>
<td>Connector M8 x 1</td>
<td>5 mm</td>
</tr>
<tr>
<td>Q12</td>
<td>40 x 26 x 12 mm</td>
<td>Connector M12 x 1</td>
<td>5 mm</td>
</tr>
<tr>
<td>CK40</td>
<td>65 x 40 x 40 mm</td>
<td>Terminal chamber</td>
<td>30 mm</td>
</tr>
<tr>
<td>QV40</td>
<td>65 x 40 x 40 mm</td>
<td>Terminal chamber</td>
<td>20 mm</td>
</tr>
<tr>
<td>CP40</td>
<td>114 x 40 x 40 mm</td>
<td>Terminal chamber</td>
<td>30 mm</td>
</tr>
<tr>
<td>Q42</td>
<td>67.7 x 42.5 x 42.5 mm</td>
<td>Connector M12 x 1</td>
<td>50 mm</td>
</tr>
<tr>
<td>Q80</td>
<td>92 x 80 x 40 mm</td>
<td>Connector M12 x 1</td>
<td>50 mm</td>
</tr>
<tr>
<td>K90SR</td>
<td>130 x 75 x 60 mm</td>
<td>Terminal chamber</td>
<td>100 mm</td>
</tr>
</tbody>
</table>

Overview – Housing styles

Summary of different housing styles and their specifications.
**Food industry**

Protected by a rugged stainless steel V4A housing with LCP front cap, the uprox®+ sensors of the Wash-Down series are IP68/IP69K compliant and resist temperatures of -40 °C to +100 °C. Furthermore, the series is completed by the rectangular type Q42 made of special, detergent resistant PA12.

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**Automotive industry**

The TF80i coated threaded barrel versions are the best choice for rough environments. They are optimally protected against weld-spatter and drillings and thus resist mechanical strain. The absence of a ferrite core makes the sensors immune to interferences caused by strong magnetic fields.

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**Assembly and handling industry**

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**Transport and handling**

TURCK offers optimized sensors for material handling. The rectangular sensors CK40, QV40 and CP40 feature highest switching distances. They are suitable for use in any system thanks to the excellent mounting options.

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**Overview – Housing styles**

<table>
<thead>
<tr>
<th>Cylindrical versions:</th>
<th>Rectangular versions:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing style</strong></td>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>EH6,5</strong></td>
<td>63 mm</td>
</tr>
<tr>
<td><strong>EG08</strong></td>
<td>62 mm</td>
</tr>
<tr>
<td><strong>M12</strong></td>
<td>72 mm</td>
</tr>
<tr>
<td><strong>Q08</strong></td>
<td>32 x 20 x 8 mm</td>
</tr>
<tr>
<td><strong>QP08</strong></td>
<td>32 x 20 x 8 mm</td>
</tr>
<tr>
<td><strong>Q8SE</strong></td>
<td>40 x 8 x 8 mm</td>
</tr>
<tr>
<td><strong>Q10S</strong></td>
<td>27.8 x 16 x 10.2 mm</td>
</tr>
<tr>
<td><strong>Q12</strong></td>
<td>40 x 26 x 12 mm</td>
</tr>
<tr>
<td><strong>CK40</strong></td>
<td>65 x 40 x 40 mm</td>
</tr>
<tr>
<td><strong>QV40</strong></td>
<td>65 x 40 x 40 mm</td>
</tr>
<tr>
<td><strong>CP40</strong></td>
<td>114 x 40 x 40 mm</td>
</tr>
<tr>
<td><strong>Q42</strong></td>
<td>67.7 x 42.5 x 42.5 mm</td>
</tr>
<tr>
<td><strong>Q80</strong></td>
<td>92 x 80 x 40 mm</td>
</tr>
<tr>
<td><strong>K90S</strong></td>
<td>130 x 75 x 60 mm</td>
</tr>
</tbody>
</table>

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**Advantages for all industrial applications!**

- **INDUCTIVE FACTOR 1 SENSORS**
  - Advantages for all industrial applications!

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**To get all product information, just scan the QR code with a smartphone or webcam.**

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**www.turck.com**