Total Cost Savings with Consignment Service

HTM™ Sensors is committed to the aggressive elimination of downtime. PROXWorx™ vending machines provide the best possible service, inventory control, and data for continuous improvement.

Call: 800-644-1756 or email: service@htmsensors.com
H30 PHOTOELECTRIC SENSORS WITH I/O LINK

- MINIATURE HOUSING
- SENSITIVITY ADJUSTMENT VIA POTENTIOMETER
- IO-LINK FOR PROCESS OPTIMIZATION
- EXCELLENT BLACK/WHITE BEHAVIOR
- IMMUNITY TO MUTUAL INTERFERENCES

HTMSSENSORS.COM
### H30 Photoelectric Sensors with I/O Link Specifications

#### Thru-Beam
- **Sensing Range:** 30 m, 1.5 m, 8 m, 300 mm, 5 m
- **Light Source:** N/A, Red LED 630 nm, Red LED 630 nm, PinPoint Red LED 640 nm, Red LED 630 nm
- **Light Spot Size (Distance):** N/A, ø 15 mm @ 500 m, ø 26 mm @ 1 m, ø 30 mm @ 1 m, ø 140 mm @ 6 m, ø 6 mm @ 100 m, ø 10 mm @ 300 m, ø 40 mm @ 1 m
- **Indicator LED:** Output: Yellow, Excess Gain: Green
- **Supply Voltage Range (UB):** 10-30 V DC
- **IO-Link:** ✓
- **Response Time:** <= 500 µs (normal) / <= 1 ms / <= 250 µs
- **Output Type:** PNP Complementary
- **Operation Mode:** Light On or Dark on Selectable wiring
- **Housing Material:** ABS
- **Lens Material:** PMMA
- **IP Rating:** IP67
- **Cable or Connector:** 4-Pin M8 Male QD
- **Part Numbers**
  - DC Emitter QD: H30-TTX-30000D-M8-3QD
  - PNP: H30-TRX-30000P-M8-4QD, H30-DIF-1500P-M8-4QD, H30-RET-8000P-M8-4QD, H30-BGS-0300P-M8-4QD, H30-COD-5000P-M8-4QD
  - DC Emitter Pre-wired: H30-TTX-30000D-2M

#### Diffuse

#### Retroreflective

#### Background Suppression

#### Clear Object Detection

### Specifications
- **Io-Link Functions:**
  - Version: 1.0
  - SIO mode: Supported
  - Process data: Detection state & stability alarm
  - Baudrate: COM2 (38.4 kBaud)
- **Special Functions:** Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

### Wiring Diagrams
- **4-Pin QD Wiring Diagram**
- **Pre-Wired Wiring Diagram**

### Notes
- Specifications subject to change without notification.

### Additional Information
- Photoelectric sensors with visible LED ensure reliable and extended sensing ranges for limited spaces, with IP67 enclosure rating and are Ecolab-approved for use in hygienic areas.
- IO-Link communication for process optimization.

Toll Free: 1-800-644-1756
IP69K RATED SENSORS FOR FOOD, BEVERAGE, PHARMACEUTICAL AND OTHER WASHDOWN APPLICATIONS

- SUS 316 FOOD GRADE STAINLESS STEEL HOUSING
- EXTENDED RANGE IN SHIELDED OR UNSHIELDED MODELS
- AVAILABLE WITH MATCHING IP69K M12 CONNECTOR CABLES
- IDEAL FOR APPLICATIONS WITH HIGH PRESSURE AND CHEMICAL WASHDOWN
IP69K Food Grade Proximity Sensors and Washdown Cables Specifications

### Sensing Distance

<table>
<thead>
<tr>
<th></th>
<th>4 mm</th>
<th>8 mm</th>
<th>8 mm</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>10-30 V DC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 °C - +80 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing Material</td>
<td>SUS 316 Stainless Steel with PPS thermoplastic Sensing Face</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP69K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shielded PNP - NO/NC</td>
<td>ECU1-1204P-SRU4-316-IP69K</td>
<td>ECU1-1808P-SRU4-316-IP69K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unshielded PNP - NO/NC</td>
<td>ECU2-1208P-SRU4-316-IP69K</td>
<td>ECU2-1812P-SRU4-316-IP69K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shielded NPN - NO/NC</td>
<td>ECU1-1204N-SRU4-316-IP69K</td>
<td>ECU1-1808N-SRU4-316-IP69K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unshielded NPN - NO/NC</td>
<td>ECU2-1208N-SRU4-316-IP69K</td>
<td>ECU2-1812N-SRU4-316-IP69K</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Specifications subject to change without notification.

### Part Number

<table>
<thead>
<tr>
<th></th>
<th>R-FS4TZ-V075-SS-IP69K</th>
<th>R-FA4TZ-V075-SS-IP69K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current</td>
<td>4 A</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 °C - +105 °C</td>
<td></td>
</tr>
<tr>
<td>Locking Nut / Jacket Material</td>
<td>Stainless Steel AISI316L / PP-EPDM</td>
<td></td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP69K</td>
<td></td>
</tr>
<tr>
<td>Nominal Tension</td>
<td>MAX. 250 V AC/DC</td>
<td></td>
</tr>
<tr>
<td>Number of Bending Cycles</td>
<td>4,000,000</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Specifications subject to change without notification.

IP69K rated food grade proximity sensors and cables are the best choice for food and packaging machinery where a reliable and completely sealed sensor and cable is required for long-lasting operation in a tough environment.
METALHEAD™ FOOD GRADE SENSORS

HTMSENSORS.COM

- 1-PIECE STAINLESS STEEL SENSORS FOR FOOD AND PACKAGING APPLICATIONS
- MADE OF 1-PIECE OF SUS 316 FOOD GRADE STAINLESS STEEL BAR
- DOUBLE THE RANGE FROM STANDARD, THE M12 HAS A 4 mm RANGE
- 100 ºC RATING FOR HOT FOOD PRODUCTION OR CLEANING
- AVAILABLE IN PNP, NPN, DC 2-WIRE AND AC OUTPUT FUNCTIONS
- IDEAL FOR USE WHERE PRESSURE WASHDOWN AND DETERGENTS ARE USED

HTMSENSORS.COM
FOOD GRADE METALHEAD™ SENSORS ARE THE BEST CHOICE FOR FOOD AND PACKAGING MACHINERY WHERE A RELIABLE AND COMPLETELY SEALED SENSOR IS REQUIRED FOR LONG-LASTING OPERATION IN A TOUGH ENVIRONMENT.
CAPACITIVE PROXIMITY SENSORS

- CAPACITIVE SENSORS FOR LEVEL CONTROL AND NON-METALLIC PRESENCE DETECTION
- AVAILABLE IN PLASTIC OR STAINLESS STEEL HOUSINGS
- AVAILABLE WITH A PRE-WIRED CABLE OF ANY LENGTH, OR WITH A QUICK-CONNECT
- AVAILABLE WITH PNP, NPN, AC AND AC/DC OUTPUT FUNCTIONS
- AVAILABLE IN SHIELDED OR UNSHIELDED CONSTRUCTION FOR ANY APPLICATION
- IDEAL FOR USE IN MACHINES THAT REQUIRE NON-METALLIC, NON-CONTACT SENSING

HTMSENSORS.COM
**CAPACITIVE PROXIMITY SENSORS**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>M18 - PLASTIC</th>
<th>M18 - STAINLESS</th>
<th>M30 - PLASTIC</th>
<th>M30 - STAINLESS</th>
<th>M32 - STAINLESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENSING DISTANCE</td>
<td>1-15 mm adjustable</td>
<td>1-15 mm adjustable</td>
<td>1-30 mm adjustable</td>
<td>1-30 mm adjustable</td>
</tr>
<tr>
<td>OPERATING TEMPERATURE</td>
<td>-25 °C - +70 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SENSING FACE MATERIAL</td>
<td>PBT Plastic</td>
<td>PTFE</td>
<td>PBT Plastic</td>
<td>PTFE</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>PBT Plastic</td>
<td>Stainless Steel</td>
<td>PBT Plastic</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>PART NUMBERS</td>
<td>CCP2-1815P-A3U2, CCU2-1815P-A3U2</td>
<td>CCP2-1815P-B3U2, CCU2-1815P-B3U2</td>
<td>CCP2-3030P-A3U2, CCU2-3030P-A3U2</td>
<td>CCP2-3030P-B3U2, CCU2-3030P-B3U2</td>
</tr>
<tr>
<td>DC 3-wire 10-30 V PNP - Open</td>
<td>CCP2-1815N-A3U2, CCU2-1815N-A3U2</td>
<td>CCP2-1815N-B3U2, CCU2-1815N-B3U2</td>
<td>CCP2-3030N-A3U2, CCU2-3030N-A3U2</td>
<td>CCP2-3030N-B3U2, CCU2-3030N-B3U2</td>
</tr>
</tbody>
</table>

NOTE: Specifications subject to change without notification.

*Flatpack, M8 and M12 sizes available.

CAPACITIVE SENSORS ARE THE BEST CHOICE FOR THE RELIABLE DETECTION OF LIQUIDS, BULK SOLIDS, PLASTICS, POWDERS, PELLETS AND PASTES WHERE A NON-CONTACT SOLUTION IS REQUIRED.
World Class Sensors • First Class Service

DO YOU HAVE TROUBLE FINDING PARTS?
ARE YOU HAVING LEAD-TIME ISSUES?

TAKE THE → PART # CHALLENGE!

TAKE THE HTM SENSORS PART # CHALLENGE!
Send us your parts to cross-reference to ours. We will show you significant savings versus the part you are currently using.

ARE YOU BREAKING SENSORS TOO OFTEN?
Just ask us for help. Our one-piece stainless steel body and face sensors typically last up to 10x longer than standard sensors.

Call, email or use our LIVE CHAT with a cross reference to challenge HTM Sensors to save you money! Or download our Part # Challenge form at:
https://www.htmsensors.com/content/HTM_PartNumber_Challenge.pdf

FOR ALL YOUR OTHER MANUFACTURING NEEDS,
LET US SAVE YOU MONEY TODAY!

CONTACT US TODAY FOR MORE INFORMATION AND FOR PRICING.
800-644-1756 • sales@htmsensors.com