





HTMSENSORS.COM

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







IO-Link



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

H30 PHOTOELECTRIC SENSORS WITH I/O LINK SPECIFICATIONS

	THRU-BEAM	DIFFUSE	RETROREFLECTIVE	BACKGROUND SUPPRESSION	CLEAR OBJECT DETECTION
	White !	White 19	White 19	White !	All Inches
SENSING RANGE TYP. MAX.	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	✓	✓	✓	✓	✓
SHORT CIRCUIT PROTECTION	✓	✓	✓	✓	✓
REVERSE POLARITY PROTECTION	✓	✓	✓	✓	✓
RESPONSE TIME ¹	<= 500 μs (normal) / <=1 ms / <= 250 μs	<= 340 μs (normal) / <=1 ms / <= 100 μs	<= 340 μs (normal) / <=1 ms / <= 100 μs	<= 500 μs (normal) / <=1 ms / <= 250 μs	<= 340 μs (normal) / <=1 ms / <= 100 μs
OUTPUT TYPE	PNP Complementary				
OPERATION MODE	Light On or Dark on Selectable wiring				
HOUSING MATERIAL	ABS PMMA				
LENS MATERIAL					
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
NPN	H30-TRX-30000N-M8-4QD	H30-DIF-1500N-M8-4QD	H30-RET-8000N-M8-4QD	H30-BGS-0300N-M8-4QD	H30-COD-5000N-M8-4QD
DC Emitter Pre-wired	H30-TTX-30000D-2M				
PNP Pre-wired	H30-TRX-30000P-2M	H30-DIF-1500P-2M	H30-RET-8000P-2M	H30-BGS-0300P-2M	H30-COD-5000P-2M
NPN Pre-wired	H30-TRX-30000N-2M	H30-DIF-1500N-2M	H30-RET-8000N-2M	H30-BGS-0300N-2M	H30-COD-5000N-2M

NOTE: Specifications subject to change without notification. 'By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.







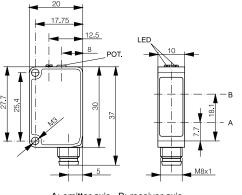


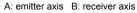




IO-LINK FUNCT
IO-Link version:

10-LINK FUNCTIONALITIES					
IO-Link 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					

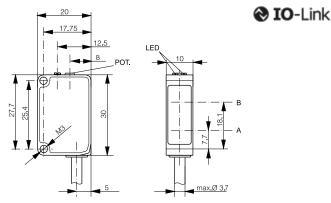




WIRING DIAGRAM - 4-PIN QD

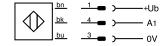






A: emitter axis B: receiver axis

WIRING DIAGRAM - PRE-WIRED



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.

IP69K FOOD GRADE PROXIMITY SENSORS AND WASHDOWN CABLES

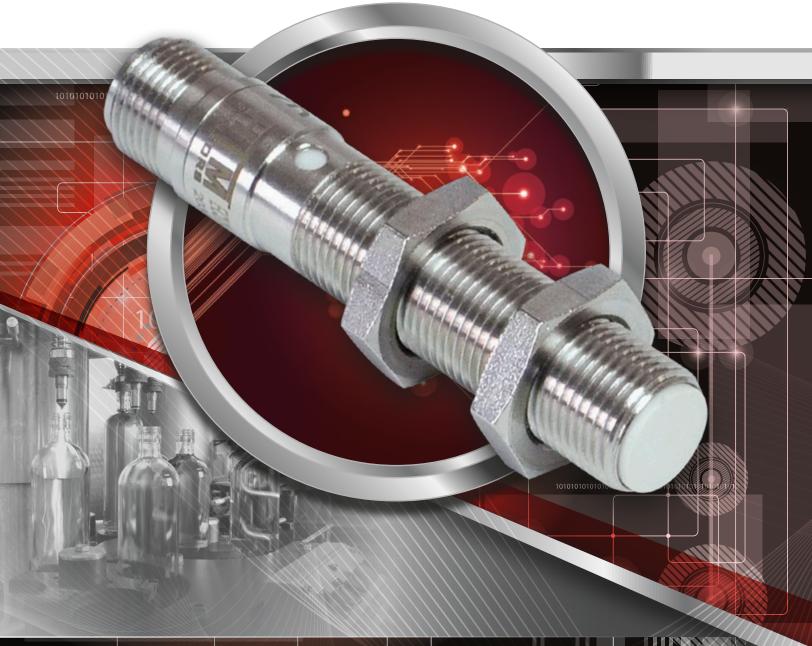












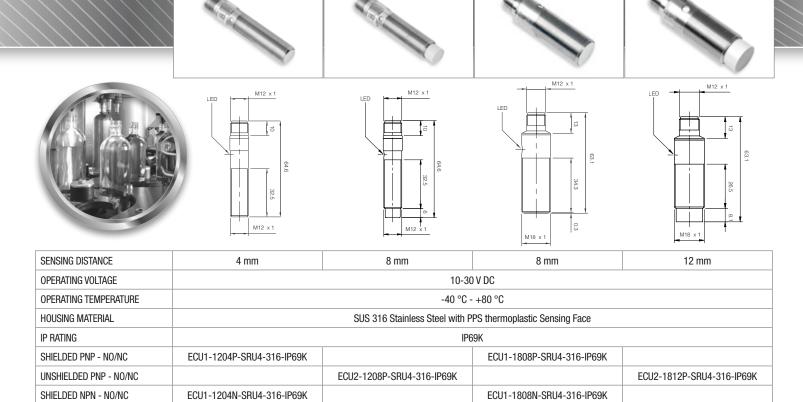
- IP69K RATED SENSORS FOR FOOD, BEVERAGE, PHARMACEUTICAL AND OTHER WASHDOWN APPLICATIONS
- SUS 316 FOOD GRADE STAINLESS STEEL HOUSING
- EXTENDED RANGE IN SHIELDED OR UNSHIELDED MODELS
- > AVAILABLE WITH MATCHING IP69K M12 CONNECTOR CABLES
- > IDEAL FOR APPLICATIONS WITH HIGH PRESSURE AND CHEMICAL WASHDOWN



IP69K FOOD GRADE PROXIMITY SENSORS AND WASHDOWN CABLES SPECIFICATIONS

M18 SHIELDED

M18 UNSHIELDED



ECU2-1208N-SRU4-316-IP69K

M12 UNSHIELDED

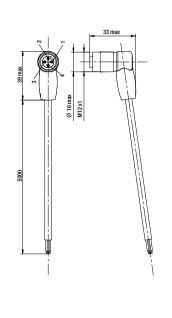
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UNSHIELDED NPN - NO/NC

	FEMALE STRAIGHT	FEMALE ANGLED		
PART NUMBER	R-FS4TZ-V075-SS-IP69K	R-FA4TZ-V075-SS-IP69K		
RATED CURRENT	4 A			
OPERATING TEMPERATURE	-40 °C - +105 °C			
LOCKING NUT / JACKET MATERIAL	Stainless Steel AlSl316L / PP-EPDM			
IP RATING	IP69K			
NOMINAL TENSION	MAX. 250 V AC/DC			
NUMBER OF BENDING CYCLES	4,000	4,000,000		
NOTE: Specifications subject to change w	ithout notification.			

M12 SHIELDED

Ø16 max M12 x 1 S000



ECU2-1812N-SRU4-316-IP69K

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

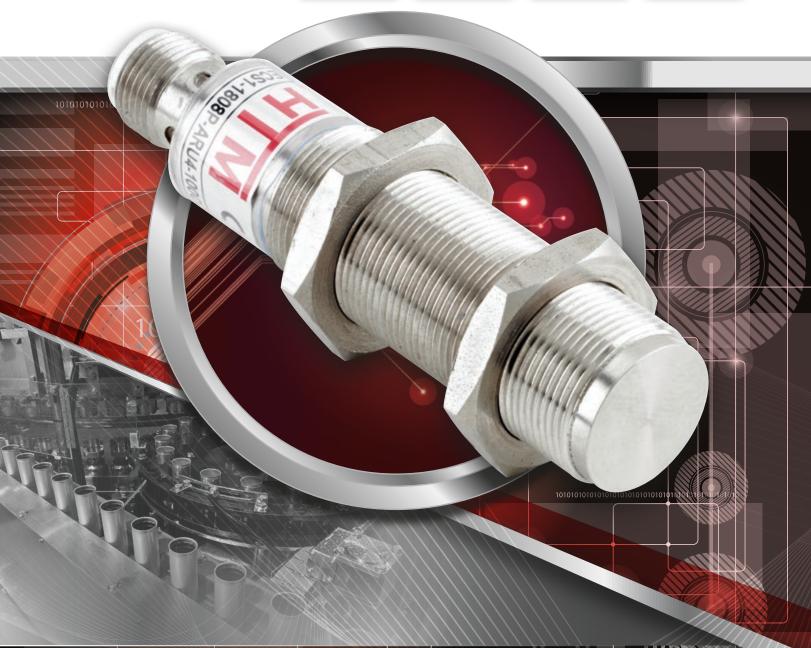








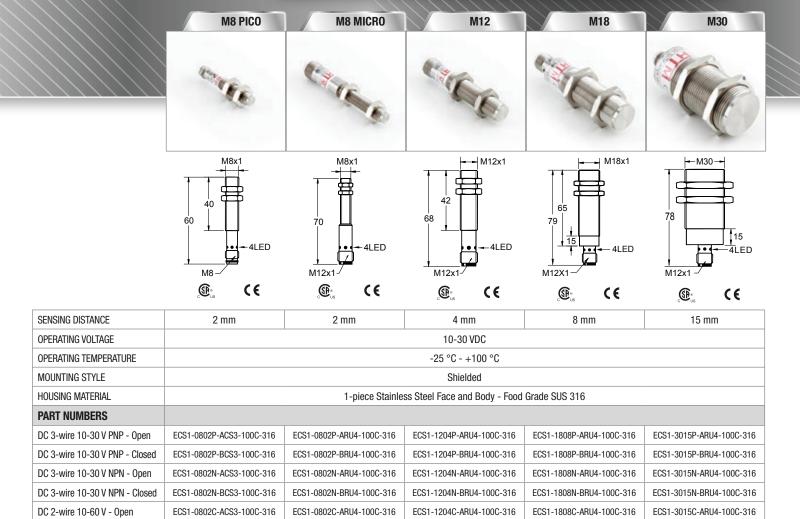




- > 1-PIECE STAINLESS STEEL SENSORS FOR FOOD AND PACKAGING APPLICATIONS
- MADE OF 1-PIECE OF SUS 316 FOOD GRADE STAINLESS STEEL BAR
- > DOUBLE THE RANGE FROM STANDARD, THE M12 HAS A 4 mm RANGE
- > 100 °C RATING FOR HOT FOOD PRODUCTION OR CLEANING
- > AVAILABLE IN PNP, NPN, DC 2-WIRE AND AC OUTPUT FUNCTIONS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



METALHEAD[™] FOOD GRADE SENSORS SPECIFICATIONS



ECS1-1204A-AUL3-100C-316 *

N/A

Short body versions available upon request.

AC 20-240 V - Open

NOTE: Specifications subject to change without notification.

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.

N/A



ECS1-1808A-AUL3-100C-316 *

ECS1-3015A-AUL3-100C-316 *

^{*} Connector thread for these AC part numbers is 1/2-20 UNF and not M12.













- > 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

CAPACITIVE PROXIMITY SENSORS SPECIFICATIONS



SENSING DISTANCE	1-15 mm adjustable	1-15 mm adjustable	1-30 mm adjustable	1-30 mm adjustable	1-40 mm adjustable
OPERATING TEMPERATURE	-25 °C - +70 °C				
SENSING FACE MATERIAL	PBT Plastic	PTFE	PBT Plastic	PTFE	PTFE
HOUSING MATERIAL	PBT Plastic	Stainless Steel	PBT Plastic	Stainless Steel	Stainless Steel
PART NUMBERS					
DC 3-wire 10-30 V PNP - Open	CCP2-1815P-A3U2	CCU2-1815P-A3U2	CCP2-3030P-A3U2	CCU2-3030P-A3U2	CCU2-3240P-A3U2
DC 3-wire 10-30 V PNP - Closed	CCP2-1815P-B3U2	CCU2-1815P-B3U2	CCP2-3030P-B3U2	CCU2-3030P-B3U2	CCU2-3240P-B3U2
DC 3-wire 10-30 V NPN - Open	CCP2-1815N-A3U2	CCU2-1815N-A3U2	CCP2-3030N-A3U2	CCU2-3030N-A3U2	CCU2-3240N-A3U2
DC 3-wire 10-30 V NPN - Closed	CCP2-1815N-B3U2	CCU2-1815N-B3U2	CCP2-3030N-B3U2	CCU2-3030N-B3U2	CCU2-3240N-B3U2
AC 20-240 V AC - Open	CCP2-1815A-A3U2	CCU2-1815A-A3U2	CCP2-3030A-A3U2	CCU2-3030A-A3U2	CCU2-3240A-A3U2
AC 20-240 V AC - Closed	CCP2-1815A-B3U2	CCU2-1815A-B3U2	CCP2-3030A-B3U2	CCU2-3030A-B3U2	CCU2-3240A-B3U2

 $\label{eq:NOTE:pecifications} \mbox{NOTE: Specifications subject to change without notification.}$

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.



^{*}Flatpack, M8 and M12 sizes available.



World Class Sensors • First Class Service

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



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



