

HIGHLIGHTS

SMART INDUCTIVE & PHOTOELECTRIC SENSORS

IO-Link smart profile with analog or digital outputs

INDUCTIVE WELD-IMMUNE & SPATTER-RESISTANT ACCESSORIES

· Revolutionary protection for long life

PHOTOELECTRIC C23, M12 & M18 SERIES

· Robust with excellent background suppression

PHOTOELECTRIC MINIATURE SERIES

• Ultra-compact MiniDist - fully embeddable

RFID WITH IO-LINK

· Tough, fast, cost-effective and easily integrated

PROGRAM OVERVIEW 2023

LIVE SENSOR DATA FOR IIoT @ IO-Link







WELD-IMMUNE



ContriApp







CONTRINEX – A WORLD OF SENSORS

AT A GLANCE

- ✓ Global Smart-Sensor technology leader for complex automation and Smart-Factory applications
- √ 50 years' experience of intelligentsensing and identification solutions using leading-edge inductive and photoelectric sensors and RFID systems in the most demanding applications, in the harshest environments and with the tightest space constraints
- ✓ Using real-time sensor data for IIoT and remote asset management, enabling customers to make faster and better decisions
- ✓ Represented in over 60 countries worldwide, headquartered in Switzerland
- ✓ Unrivalled portfolio of more than 8,000 products



Contrinex Headquarters, Switzerland

GLOBAL PRESENCE



CONTRINEX PRODUCT RANGES

SENSORS	SMART
	SMART SENSOR OVERVIEW

	SMART SENSOR OVERVIEW SMART TASKS SMART INDUCTIVE SENSORS SMART PHOTOELECTRIC SENSORS	6 7 8 9
	POCKETCODR NO-CODE IO-LINK SENSOR CONFIGURATION	10
	INDUCTIVE	
	BASIC MINIATURE EXTREME ANALOG OUTPUT EXTRA PRESSURE HIGH PRESSURE EXTRA TEMPERATURE HIGH TEMPERATURE 2-WIRE MARITIME WELD-IMMUNE CHIP-IMMUNE DOUBLE-SHEET WASHDOWN	11 12 13 13 14 14 15 15 16 16 17 18 18
	ULTRASONIC SHORT AND STANDARD HOUSING	19
	PHOTOELECTRIC STANDARD MINIATURE MINIDIST SMART PHOTOELECTRIC ADVANCED FIBER OPTIC SENSORS AND FIBERS DISTANCE TRANSPARENT OBJECT COLOR AND CONTRAST LIGHT GRIDS FORK SENSORS	20 21 22 22 23 23 24 25 26
SAFETY	LIGHT CURTAINS AND SENSORS BASIC SLIM (LIGHT CURTAINS) BASIC STANDARD (LIGHT CURTAINS) EXTENDED SLIM (LIGHT CURTAINS) MAGNETIC AND RFID SENSORS ACCESSORIES	27 27 27 28 28
RFID	LOW AND HIGH FREQUENCY BASIC (TAGS, RWMs) USB (RWMs, INTERFACES) HIGH TEMPERATURE (TAGS) EXTREME (TAGS, RWMs) WASHDOWN (TAGS, RWMs) IO-LINK (RWMs)	29 29 29 30 30 30
For special products see Contrinex catalog, downloadable from our website: www.contrinex.com	ACCESSORIES CABLES, MOUNTING BRACKETS AND REFLECTORS	31

IO-Link **FUNCTIONALITY***

		N N	품	R	SM
	Data monitoring Switching state is monitored continuously. This not only monitors the signal itself, but also the state at 80% of the switching distance. One can therefore ensure that the sensor is not working at the limit of its specifications.	✓	✓	✓	✓
	Diagnosis The operating state of the sensor is checked. In case of open circuit, under-voltage, LC oscillator failure or installation of the wrong sensor, information is provided directly through ③ IO -Link to enable fast repair, maintenance and replacement.	✓	✓	✓	✓
45%	Detection counter Detection events are counted. By registering the number of detections, it is possible to calculate the speed or number of parts. The counter can be reset by means of a unique § IO -Link message.	✓	✓	✓	✓
	Temperature The internal temperature of the sensor is measured continuously, which provides an indication about the ambient temperature in the application. Moreover, the maximum temperature measured is saved for diagnosis and preventive maintenance purposes.	✓	✓		✓
At	Switching timer The timing of output switching can be configured. Depending on the needs of an application, output switching can be delayed or the duration stretched through programming.	✓	✓	✓	✓
NC	NO/NC selection The output switching mode can be selected as NO or NC. A single sensor type is configurable for the various needs of an application. This helps reduce the number of different sensor types required in stock.	✓		✓	✓
	Sensitivity and teach The sensitivity of the sensor can be adjusted remotely by changing the threshold. Alternatively, the teach function can be used to adapt the threshold to the application. Calibrated sensing ranges ensure easy sensor replacement by uploading the existing sensitivity to the replacement sensor.		✓	✓	✓
DO	Light-ON/Dark-ON selection The output switching mode can be selected as Light-ON or Dark-ON. A single sensor type is configurable for the various needs of an application. This helps reduce the number of different sensor types required in stock.		✓		
	Sensor mode Three different modes are selectable depending on the application needs: "Normal", "Fast" and "Fine". "Normal" mode is a good balance of speed and precision. In "Fast" mode, speed is higher and in "Fine" mode precision is higher.		✓	✓	✓
	Sequence selection				

OTOELECTRIC

For cross-talk immunity with through-beam sensors, up to 9 different emitting sequences can be selected to pair the emitter with the receiver.

^{*}Functionalities may vary depending on series and sensor type

UNLOCK NEW SENSING POTENTIAL



GROUND-BREAKING SMART DEVICES

Contrinex Smart Sensors, designed with the needs of OEMs and system integrators in mind, have all the answers when it comes to reducing complexity and cost. By implementing multiple sensing modes in a single sensor, Contrinex has given designers the freedom they've always dreamed about, offering exceptional versatility and simplified integration.

Let Contrinex Smart Sensors supercharge your IoT strategy; enjoy all the advantages of the industry-standard IO-Link SSP 3.3 interface, plus the option of high-speed sensor-based decision-making using SIO. The only limit is your imagination...



SMART SENSORS





PRODUCT ADVANTAGES SMART **INDUCTIVE SENSORS**

- Multiple sensing modes in a single sensor
- Two sensor output channels enable usage for IIoT applications
- Extensive options for user configuration ensure exceptional versatility
- ✓ High-resolution Smart Digital Measurement Sensors (DMS) deliver continuous target-distance data
- IO-Link smart profile with analog or digital output simplifies control-system integration
- Condition-based alarms minimize maintenance costs
- Full-inox versions offer increased protection with exceptional sensing ranges on aluminum, brass and copper targets

PRODUCT ADVANTAGES SMART PHOTOELECTRIC SENSORS

- Multiple sensing modes in a single sensor
- Two sensor output channels enable usage for IIoT applications
- Extended measurement range vs Smart Inductive Sensors
- ✓ Advanced switching logic encompasses more applications
- ✓ Enhanced 3-mode teach capability for increased flexibility
- IO-Link smart profile with digital output simplifies controlsystem integration
- Condition-based self-monitoring minimizes maintenance
- Localized D2D process logic enables sensor-based decision-making

INDUSTRIES

Automation, packaging, robotics, automotive, green energy, environment, logistics, machine tools, electronic assembly, food and beverage, textiles, materials handling



Spindle-cutting machine tool



Metal recycling equipment





Conveyor systems





Robotics for pick-and-place



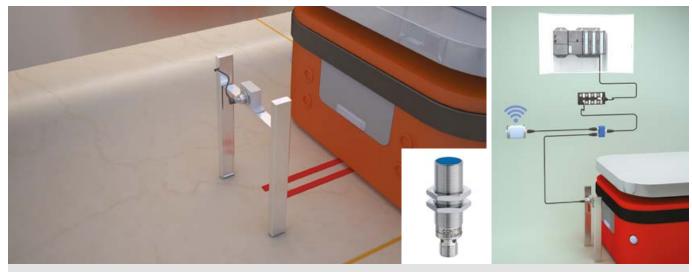


SMART SENSORS

AGV POSITIONING + MACHINE OPTIMIZATION

An inductive Basic Smart Sensor, positioned in the docking bay of a pick-and-place loading machine, senses the approach of an AGV and communicates via IO-Link with a central PLC, ensuring safe two-speed docking.

Using its second output, the sensor also communicates with a local control system via a wireless hub, initiating start-up for the pick-and-place machine, which has been on stand-by since completion of the previous loading cycle.



Local optimization of machine utilization and energy usage optimizes effectiveness

- Smart inductive sensor supports two-speed AGV docking to reduce cycle time
- Simple IO-Link routines trigger low-speed final approach at pre-set distance
- Secondary output communicates wirelessly with local control systems
- Machine standby is initiated and ended based on demand, reducing energy needs

OVER-HEIGHT DETECTION + THROUGHPUT MONITORING

A photoelectric DMS Smart Sensor, positioned directly above a conveyor transporting sealed cartons, detects an overheight carton and reports via IO-Link to a central server, triggering an intervention if required.

The sensor also maintains a count of throughput, reporting separately when a pre-set quantity is reached and sending an alert to the warehouse in preparation for the arrival of an AGV. This may also trigger an upload of path data to the AGV for its journey to a specific warehouse location.



Smart Sensor enables integration of discrete operational systems

- Sensor with extended sensing distance ensures non-contact over-height detection
- IO-Link communication triggers timely intervention if required
- Smart Sensor also maintains cumulative throughput count at no extra cost
- Secondary output alerts warehouse systems to expect arrival of an AGV

SMART INDUCTIVE SENSOR



Shop





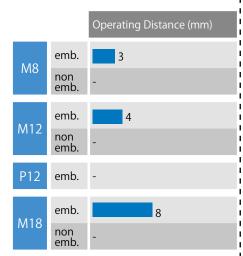


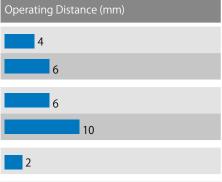


SMART SENSOR BASIC



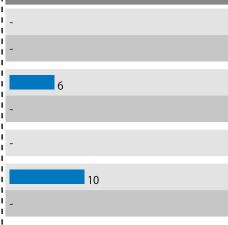
SMART ANALOG MEASUREMENT SENSORS (AMS)





20

10



Dual-channel configurable outputs Stretch, delay or one-shot timers Digital teach function **Event-based alarms Temperature monitoring Counter functions**

Dual-channel configurable outputs Stretch, delay or one-shot timers Digital teach function **Event-based alarms** High-resolution distance measurement Linear digital output **Data Storage** Pin 2 configurable as input for wire-teach or D2D **Temperature monitoring**

Dual-channel configurable outputs Stretch, delay or one-shot timers Digital teach function **Event-based alarms** High-resolution distance measurement Linear analog or digital output Voltage output **Data Storage Temperature monitoring Counter functions**

IO-Link SSP 2.7 V 1.1

IO-Link SSP 4.1.1 V 1.1

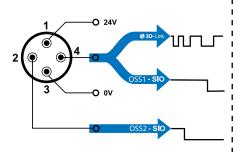
Counter functions

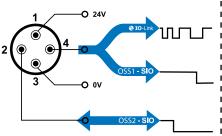
IO-Link SSP 4.1.1 V 1.1

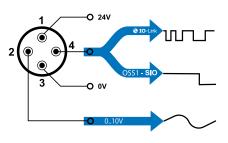
Dual Output

Dual Output

Dual Output







SMART PHOTOELECTRIC SENSOR



Shop









SMART SENSOR BASIC

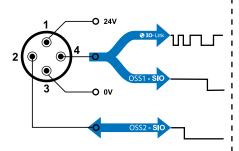
C23	Operating Distance (mm)
Background suppression	0300
Diffuse	01 500
Reflex	08 000
Through beam	030 000
	I

M18	Operating Distance (mm)			
Background suppression	0250			
Diffuse	01 200			
Reflex	07000			
Through beam	030 000			

Dual-channel configurable outputs Stretch, delay or one-shot timers Data storage Digital teach function **Temperature monitoring Counter functions Event-based alarms**

> **IO**-Link SSP 2.7 V 1.1

> > **Dual Output**



SMART DIGITAL MEASUREMENT SENSORS (DMS)

C23	Operating Distance (mm)
Distance	25 - 150
M18	Operating Distance (mm)
Distance	25 - 150

Dual-channel configurable outputs High-resolution distance measurement with linear digital output Stretch, delay or one-shot timers Data storage **Digital teach function**

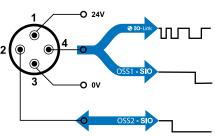
Pin 2 configurable as input for wire-teach or D2D

IO-Link smart profile with on-board data storage **Temperature monitoring**

Counter functions Data recording and statistical computation **Event-based alarms**

> 🚷 IO-Link SSP 4.1.1 V 1.1

> > **Dual Output**



SMART ANALOG MEASUREMENT SENSORS (AMS)

C23	Operating Distance (mm)
Distance	25 - 150
M18	Operating Distance (mm)
Distance	25 - 150

Dual-channel configurable outputs High-resolution distance measurement with linear analog output

Data storage Voltage output

Stretch, delay or one-shot timers

Digital teach function

IO-Link smart profile with on-board data storage

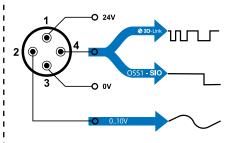
Temperature monitoring

Data recording and statistical computation

> **Counter functions Event-based alarms**

IO-Link SSP 4.1.1 V 1.1

Dual Output







WORKS WITH @ 10-Link SENSORS

NO-CODE SENSOR CONFIGURATION

KEY ADVANTAGES

- ✓ PocketCodr app uses live data graphs to present sensor parameters on-screen and in real time
- ✓ PocketCodr's unique Action Widgets for Smart Sensors eliminate need for coding skills

HIGHLIGHTS

LIVE INTERACTIVE DATA GRAPHS

- √ View either routine process data or real-time eventdriven changes of state
- ✓ Interactive data graphs shows exactly how a sensor is behaving in real time

ACTION WIDGETS

- ✓ Simple configuration of compatible sensors without the need for programming skills
- √ Easy-to-understand in-app process features a series of intuitive, graphics-based screens
- √ Familiar controls include sliders, toggle buttons, and checkboxes, while helpful prompts guide users through the configuration

TEAM COLLABORATION

- ✓ PocketCodr enables remote sharing of sensor configurations among team members
- ✓ Sensor configurations are backed-up securely and available on demand at any location



+



Live Interactive Data Graphs





User-friendly action widgets



Team collaboration







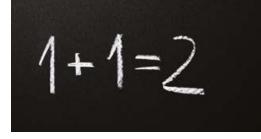
EXCELLENCE IN NORMAL ENVIRONMENTS

BASIC

KEY ADVANTAGES

- √ Exceptional price/performance ratio
- ✓ Excellent accuracy
- ✓ Outstanding switching-point stability
- √ Vibration and shock resistant





Textile spinning machine automation



INDUSTRIES

Automotive production and supply, machine tool, energy, packaging, logistics, materials handling, textile, assembly, automation

HIGHLIGHTS

C44 SERIES

- √ Highly flexible sensor solution
- ✓ Suitable for rough environments, IP68/IP69K impervious
- ✓ Active face mountable in 5 directions
- ✓ Long operating distances
- ✓ Easy click-and-lock mounting



Position detection on crane



Wind turbine speed monitoring

FULL INOX BASIC

- ✓ One-piece stainless steel housing (sensing face included)
- √ Factor 1 on steel and aluminum
- ✓ Outstanding lifetime and robustness due to Condet® technology and Contrinex ASIC
- ✓ Practically indestructible sensor





Presence sensing in automotive factory

EXTRA DISTANCE

- √ Up to 4-times standard operating distance, proven for more than 20 years across the world's largest installed base
- ✓ Outstanding lifetime and electromagnetic compatibility due to Condist® technology and Contrinex ASIC
- ✓ Special material detection (e.g. carbon fiber)



OIO-Link

	Housing size mm	Ø6.5	M8	C8	M12	M18	M30	C44	C12
_	Classics	1.5 2	1.5 4	1.5 2	28	512	10 25	15 40	4
Ē	Extra Distance	3	36	3	610	1220	2240	-	
S	Full Inox	-	2	_	3	5	10	-	



FULL FUNCTIONALITY, SMALLEST SIZE MINIATURE

KEY ADVANTAGES

- ✓ Smallest self-contained inductive sensors with
 ② IO-Link on the market
- √ Ideal for mounting where space is limited
- ✓ Outstanding temperature stability from -25°C (-13°F) to +70°C (+158°F) or +85°C (+185°F) for Full Inox types
- ✓ Sensor weight starting as low as 18 g.
- ✓ Electronics vacuum potted for optimum long-term reliability under high stress



Machine tool, vehicles, assembly, automation, robotics, micromechanics, special purpose machines



Robotics for pick-and-place



HIGHLIGHTS

MINIMINI

- √ Embeddable ultraminiature device
- √ Housing length 12 mm, 3 mm diameter, stainless steel V2A
- ✓ Increased operating distance: 1 mm
- √ High switching frequency up to 8,000 Hz

Linear drive technology



Machine tool position control



Textile spinning machine automation



FULL INOX MINIATURE

- ✓ Outstanding lifetime and robustness due to Condet® technology and Contrinex ASIC
- ✓ One-piece stainless steel housing (sensing face included)
- ✓ Long operating distances
- √ Factor 1 on steel and aluminum
- ✓ Pressure resistant up to 120 bar (1740 psi)

EXTRA DISTANCE

- ✓ Long operating distances, proven for more than 20 years across the world's largest installed base
- ✓ Outstanding lifetime and electromagnetic compatibility due to Condist® technology and Contrinex ASIC



0 -5						
Housing size mm	Ø3	M4	Ø4	M5	C5	
Classics	0.6 1	0.61	0.8 1.5	0.8 1.5	0.8 1.5	
Extra Distance	-	-	2.5	2.5	-	
Full Inox	-	-	3	3	-	



EXTREME DURABILITY IN HARSH ENVIRONMENTS

EXTREME

KEY ADVANTAGES

- ✓ One-piece stainless-steel housing
- ✓ Mechanically and chemically extremely robust
- ✓ Corrosion resistant
- ✓ IP68 and IP69K, water resistant
- ✓ Pressure resistant up to 100 bar (1,451 psi)
- √ Factor 1 on steel and aluminum





Tools for machining metal components



Mixing, lifting and tipping mechanisms



INDUSTRIES

Automotive production and supply, machine tool, maritime, vehicles, packaging, logistics, materials handling

	IO-	Link
•	TO-	LIIIK

Housing size mm	M8	M12	M18	M30	C23
Full Inox (s _n mm)	36	2 15	520	10 40	7



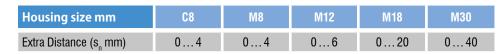
ANALOG OUTPUT FOR DISTANCE CONTROL ANALOG OUTPUT

KEY ADVANTAGES

- ✓ Longest sensing ranges
- √ Best temperature stability
- √ Excellent repeat accuracy
- ✓ Resolution in µm range
- ✓ Current or voltage output



Machine tool, packaging, logistics, materials handling, textile, printing, metal sorting, quality control, vibration monitoring







Distance monitoring for position control



Drive-belt tension monitoring





PRESSURE RESISTANT UP TO 200 BAR (2901 PSI)

EXTRA PRESSURE

KEY ADVANTAGES

- ✓ Pressure resistant up to 200 bar (2,901 psi)
- ✓ Mechanically and chemically rugged
- ✓ Impervious: IP68
- √ Gas-tight sensing face
- ✓ Miniature devices



Automotive production and supply, machine tool, energy, pneumatics, lubrication systems, pumps, valves



Housing size mm	Ø4	Ø6.5	М8
E Classics	0.6	-	-
Extra Distance	_	2.5	2.5



Micromechanical grippers



Pump and valve control



PRESSURE RESISTANT UP TO 500 BAR (7255 PSI)

HIGH PRESSURE

KEY ADVANTAGES

- ✓ Highest operating (500 bar / 7,255 psi) and peak pressure (1,000 bar / 14,510 psi) on the market
- ✓ Resistant to pressure cycles: 50 times longer lifetime under pressure than the market standard
- ✓ Gas-tight sensing face
- ✓ Large temperature range -25°C (-13°F)...+100°C (+212°F)

INDUSTRIES

Automotive production and supply, machine tool, energy, maritime, hydraulic and fluid power, concrete pumps, injection molding machines



Housing size mm	M5/P5	M8/P8	M12/P12	M14/P20
Extra Distance	1	1.5	1.5 2.5	3
Full Inox	-	-	1.5	-





Hydraulic cylinder control with sensors



Valve control for concrete pumps





TEMPERATURE RESISTANT UP TO +120°C (+248°F)

EXTRA TEMPERATURE

KEY ADVANTAGES

- √ Temperature resistant up to +120°C (+248°F)
- √ Excellent long term reliability
- ✓ Outstanding accuracy



Aircraft door monitoring





INDUSTRIES

Automotive production and supply, machine tool, energy, aerospace

(3)	TO-	Link
•		

Housing size mm	M5	M8	M12	M18
Classics (s _n mm)	0.8	4	24	5



TEMPERATURE RESISTANT UP TO +230°C (+446°F)

HIGH TEMPERATURE

KEY ADVANTAGES

- √ Highest long-term stability due to fully potted electronics
- ✓ Long sensor life
- ✓ Reliable sensing in high temperature applications
- ✓ Compact construction with integral amplifier for temperatures up to +180°C (+356°F)
- ✓ External amplifier module for temperatures up to +230°C (+446°F)





Automotive production and supply, paintshops, surface treatment, bakery equipment

Housing size mm	M8	M12	M18	M30	M50
Classics (s _n mm)	2	3/4	5	10/15	25



Automated bakery equipment



Paintshop in automotive industry



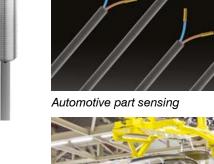


EASY INSTALLATION AND HIGH SWITCHING FREQUENCY

2-WIRE

KEY ADVANTAGES

- √ Two-wire sensors for series connection
- ✓ Sizes from Ø3 mm to M30 and 5×5 mm
- ✓ DC and AC/DC types
- √ NAMUR types with switching frequencies up to 10,000 Hz



Spindle-cutting machine tool

INDUSTRIES

Automotive production and supply, machine tool, packaging, logistics, materials handling, textile

Housing size mm	Ø3	M4	Ø4	M5	C5	Ø6.5	M8	M12	M18	M30
Classics (s _n mm)	0.6	0.6	0.8	0.8	0.8	1.5	1.5 / 2.5	2 / 4	5 / 8	10 / 15

FOR SHIPS, PORTS AND OFFSHORE

MARITIME

KEY ADVANTAGES

- ✓ GL approved, class DNV-GL-CG-0339
- ✓ Special EMC protection
- ✓ Resistant to corrosion and salt water
- ✓ Impervious, enclosure rating IP68 or IP69K
- √ Temperature range -25... +85°C (-13... +185°F)
- ✓ Full Inox types: one-piece stainless-steel housing (V4A/AISI 316L), factor 1 on steel and aluminum
- ✓ Pressure-resistance available up to 500 bar (800 bar peak)



Wear monitoring, propeller shaft



INDUSTRIES

Maritime, machine tool, energy, vehicles, ships, port and offshore installations



	O LO LINIX						
	Housing size mm	M10	M12	M18	M30	P12G	C23
s, mm	Full Inox	-	6	10	20	1.5	7
	Classics	0.6	-	-	-	-	_







REVOLUTIONARY PROTECTION **FOR LONG LIFE**

WELD-IMMUNE

KEY ADVANTAGES





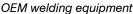
Welding cell in automotive factory



ANTI-SPATTER COATING

Activstone® coating on all external surfaces resists weld spatter in spot, MIG and MAG applications.







WELD-FIELD IMMUNITY

Contrinex sensors resist magnetic interference from medium-frequency weld fields, current up to 15 kA.





IMPACT RESISTANCE

With one-piece stainless-steel housings and Condet® technology, Full Inox sensors offer maximum impact resistance.

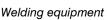


Automotive production and supply











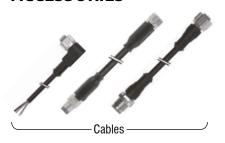
INDUSTRIES

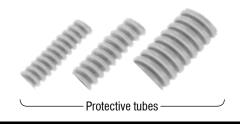
Automotive production and supply, welding equipment



Housing size mm	M8	M12	M18	M30	C23
Full Inox (s _n mm)	3	6	10	16	7
Classics (s _n mm)	2	4	8	-	-

ACCESSORIES









FOR THE HARSHEST MACHINING **ENVIRONMENTS**

CHIP-IMMUNE

KEY ADVANTAGES

- ✓ Detection not influenced by chips of steel, stainless steel, aluminum, brass, copper or titanium
- ✓ Detection of targets made of the above metals
- √ Robust, one-piece stainless-steel housing, protection rating IP68 and IP69K
- √ Temperature range -25 ... +85°C (-13 ... +185°F)
- ✓ Size M12, M18 and M30
- ✓ Operating distances up to 12 mm

INDUSTRIES

Automotive production and supply, machine tool



Housing size mm	M12	M18	M30
Full Inox (s, mm)	3	5	12



Tools for machining metal parts



Metal recycling equipment



Shop

DOUBLE-SHEET DETECTION IN METALWORKING

DOUBLE-SHEET

KEY ADVANTAGES

- ✓ Double-sheet detection (steel and aluminum) with sensitivity of 0.8-1.2 mm per sheet
- √ Full Inox: extremely robust one-piece stainless-steel housing
- ✓ Corrosion resistant
- ✓ IP68 and IP69K
- ✓ Pressure resistant up to 80 bar



Robot handling of sheet metal



Double-feed prevention for formed parts



INDUSTRIES

Automotive production and supply, machine tool, surface treatment, stamping and forming, aluminum industry

Housing size mm	М30
Full Inox (s _n mm)	4



ECOLAB APPROVED FOR HARSHEST CLEANING PROCESSES

WASHDOWN

KEY ADVANTAGES

- ✓ Corrosion resistant
- √ Food safe
- ✓ IP68/IP69K protection
- ✓ Extremely rugged Full Inox types: one-piece stainless-steel housing, factor 1 on steel and aluminum, Ecolab approved



Food and beverage, packaging, logistics, materials handling, pharmaceutical industry, industrial cleaning systems



Housing size mm	M12	M18	M30
E Full Inox	610	1020	20 40
Classics	2	_	_





Brewery production equipment



ULTRASONIC SENSORS

IDEAL FOR LIQUID OR GRANULAR TARGETS

KEY ADVANTAGES

- ✓ Precise control of position, distance, height and level
- √ Sensing ranges up to 6,000 mm
- ✓ Diffuse and reflex types
- √ Robust housings in food-grade stainless steel or plastic, IP67
- √ M18 in standard or short housing
- √ M30 in standard housing or with large front
- ✓ Various output types



Level monitoring in plastic production



Liquid level sensing in food industry



INDUSTRIES

Packaging, logistics, materials handling, food and beverage, agriculture, filling machines



-			3		
	SERIES Housing size mm	M18 short body*	M18 standard body*	M30 standard body*	M30 large head**
mu	Diffuse	300 / 1,200	900 / 2,000	2,500 / 3,500	6,000
	Reflex	300 / 1,200	900 / 2,000	-	_









FIRST-CLASS PERFORMANCE FOR GENERAL USE **STANDARD**

KEY ADVANTAGES

- √ First-class sensing ranges
- ✓ Outstanding background suppression characteristics
- ✓ Light sources: red, infrared, laser and pinpoint LED



Automotive production and supply, machine tool, packaging, logistics, materials handling, food and beverage, textile

Textile spinning machine automation



HIGHLIGHTS

C23 SERIES

- ✓ Small plastic housing, 20 × 30 × 10 mm
- ✓ Excellent background suppression characteristics with pinpoint LED
- ✓
 O IO-Link interface available on PNP types
- ✓ Mutual interference immunity
- √ Versions available with stability alarm as second output
- ✓ Enclosure rating IP67, Ecolab approved



Beverage filling machines



M18P SERIES

- ✓ Short housing: M18 × 33 mm (cable version), M18 × 37 mm (connector version)
- ✓ Excellent background suppression characteristics with pinpoint LED
- ✓
 O IO-Link interface available on PNP types
- ✓ Mutual interference immunity
- ✓ Easy flush mounting
- ✓ Easy-to-mount special accessories for right-angle emission



Conveyor systems



0	IO	-L	.ink

	SERIES Housing size mm	M12M M12	1120 M12	M18P M18	M18M M18	1180 M18	C23 □20×30×10	3030 □30×30×15	4050 □40×50×15	C55 □50×50×23	
		0					This is	3	Resident of the second of the	MERCHANIS .	
	Diffuse	800	300	1,200	1,200	250/600	1,500	600/1,200	1,200	-	
	Reflex	4,000	1,500	7,000	7,000	2,000	8,000	2,000/4,000	4,000	_	
s, mm	Through-beam	10,000	10,000/ 50,000	30,000	30,000	20,000/ 50,000	30,000	6,000/ 12,000	50,000	-	
	Background suppression	-	-	250	250	120	300	200	500	5,000	



SMALLEST ON THE MARKET

MINIATURE

KEY ADVANTAGES

D04/M05/0507 series

- √ Rugged diffuse or through-beam sensors in steel housing: \emptyset 4 mm, M5 or 5 \times 7 \times 40 mm
- ✓ Extremely compact self contained photoelectric sensors
- ✓ Accurate target detection due to focused red light beam

C12 series

- √ Plastic housing, 13 × 21/27 × 7 mm
- √ Red pinpoint LED, small visible light spot
- √ Long sensing ranges
- ✓ Excellent background suppression up to 120 mm with 3-turn potentiometer



Micromechanical grippers



INDUSTRIES

Packaging, logistics, materials handling, assembly, automation, robotics, precision engineering, semiconductors, electronics, vending machines, miniature conveyors, grippers

HIGHLIGHTS

D04 SERIES

- ✓ Embeddable housing in stainless steel V2A, Ø4 mm
- √ Calibrated sensing ranges
- √ Teach available with extended type
- ✓ High switching frequency
- ✓ Connection by cable or M8 pigtail
- ✓ Enclosure rating IP67

PCB component presence check



Detection of small parts



M05 SERIES

- ✓ Embeddable housing in stainless steel V2A, threaded M5
- √ Calibrated sensing ranges
- √ Teach available with extended type
- √ High switching frequency
- ✓ Connection by cable or M8 pigtail
- ✓ Enclosure rating IP67



SERIES Housing size mm	D04 ∅4	M05 M5	0507 □5×7×40	C12 □13×21/27×7
Diffuse	12 / 24 / 60 / 120	12 / 24 / 60 / 120	20 / 50 / 90	-
Background suppression	-	_	-	15 / 30 / 120
⊊ Reflex	-	-	-	3,000
Through-beam	600	600	-	2,000



CUSTOMIZABLE AND READY TO INTEGRATE

MINIDIST

KEY ADVANTAGES

- ✓ Miniature, photoelectric distance-measurement sensors
- ✓ Analog output 01...2.6 VDC + adjustable PNP light-on output
- ✓ Fully embeddable and suitable for easy integration with option for micro-housing
- ✓ Available with or without housing
- ✓ Enables distance-measurement for metallic and non-metallic targets
- ✓ Advanced optical and ASIC technology
- ✓ Pinpoint LED red light source with light spot 5mm



Packaging, logistics, materials handling, robotics, precision engineering, printed circuit board production, electronics, vending machines, special machinery, quality control



SERIES Housing size mm	N01 without housing □14.45×7×4	C02 □22×5×6
Distance (s mm)	up to 35	up to 35



Presence sensing by industrial robot



Printed circuit board production



Shop 2

PRECISION MEASUREMENT FOR THE MOST DEMANDING ENVIRONMENTS

SMART SENSOR ADVANCED

KEY ADVANTAGES

- √ High-resolution digital/analog measurement sensors (DMS/AMS)
- √ Robust metal-bodied construction
- √ Advanced switching logic encompasses more applications
- ✓ Digital teach function
- ✓ Condition-based self-monitoring minimizes maintenance costs
- ✓ Temperature monitoring and configurable alarm sources
- ✓ User-configurable signal scaling function

INDUSTRIES

Automotive production and supply, machine tool, surface treatment, stamping and forming, aluminum industry



O 20 Ellin		
Housing size mm	C23	M18M
Distance (s _n mm)	25 - 150	25 - 150



Non-metallic position detection



Component height detection





RELIABLE SHORT AND LONG-RANGE SENSING

FIBER-OPTIC

KEY ADVANTAGES

Fiber-optic sensors

- ✓ Robust 3030 series $(30 \times 30 \times 15 \text{ mm})$
- ✓ DIN-rail mounted 3060 series $(31 \times 60 \times 10 \text{ mm})$ suitable for multiple-sensor applications
- ✓ Distance setting by potentiometer or teach-in



Fibers

- ✓ Large selection of types, including cylindrical light beam, multi-beam, liquid-level monitoring, low-and high-temperature
- ✓ Diffuse or through-beam sensing, axial or radial
- ✓ Synthetic fibers with bending radii from 2 mm, suitable for cutting on-site



Printed circuit board production



Presence sensing by industrial robot



INDUSTRIES

Packaging, logistics, materials handling, robotics, precision engineering, printed circuit board production, electronics, vending machines, special machinery, quality control



SERIES	3030	3060
Housing size mm	□30×30×15	□30×60×10
Fiber-optic amplifier (s _n mm)	60 / 120	200

HIGH PRECISION AND DIRECT DIGITAL TRANSMISSION

DISTANCE



KEY ADVANTAGES

C23 Distance measuring sensors

- ✓ Two distance measurement ranges: 20...80 mm and 30...200 mm
- √ Housing 20 × 34 × 12 mm
- ✓ High precision and repeatability
- ✓ Settable analog range for optimum distance measurement
- ✓ Enclosure rating IP67/IP69K

C55 distance measuring sensors

- ✓ Distance measurement up to 5,000 mm
- √ Housing 50 × 50 × 23 mm
- ✓ High precision and repeatability
- ✓ Settable analog range for optimum distance measurement
- ✓ Enclosure rating IP67/IP69K, Ecolab approved



Shop

Position control in furniture factory



Sensing and measuring shelf space



INDUSTRIES

Packaging, logistics, materials handling, woodworking industry, quality control, precision engineering, printed circuit board production



SERIES Housing size mm	C23 □20×34×12	C55 □50×50×23
E Short range	80 / 100 / 200	-
້ລະ Medium range	-	5,000



OUTSTANDING RELIABILITY AND EASE OF ADJUSTMENT

TRANSPARENT OBJECT

KEY ADVANTAGES

- ✓ Light sources: UV and red LED
- √ Highly reliable reflex system
- √ C23 plastic housing, 20 × 30 × 10 mm
- ✓ **② IO**-Link interface available on PNP types
- √ Versions available with stability alarm as second output
- ✓ Mutual interference immunity
- ✓ Enclosure rating IP67, Ecolab approved

INDUSTRIES

Packaging, logistics, materials handling, food and beverage, filling machines, pharmaceutical industry

HIGHLIGHTS

C23 TRANSPARENT UV

With Contrinex's patented UV technology, these sensors are ideally suited for the presence control of transparent objects.

- ✓ Extremely reliable detection thanks to strong absorption of UV light by plastic and glass material
- ✓ Easy sensor set-up, even for thinnest transparent objects
- ✓ Low environmental sensitivity minimizes threshold adjustments and maximizes uptime
- ✓ Autocollimated, polarized UV light beam eliminates blind zone, allowing detection of targets close to the sensor or through a small notch
- ✓ Sensing range up to 1,200 mm

C23 TRANSPARENT STANDARD

For applications requiring the detection of thicker or larger transparent objects, these sensors provide a highly favorable price-performance ratio.

- ✓ Red polarized light source
- ✓ Calibrated sensing range up to 5,000 mm
- or potentiometer







Pharmaceutical vial processing

Detection of clear plastic bottles







Detection of glass sheet on conveyor



IO-Link

SERIES	C23 UV Light	C23 Red Light
Housing size mm	□20×30×10	□20×30×10
Reflex (s _n mm)	1,200	5,000



EXCELLENT RESOLUTION FOR SMALLEST VARIATIONS

COLOR AND CONTRAST

KEY ADVANTAGES

- √ Rugged housing, 40 × 50 × 15 mm
- ✓ Connector adjustable at 0°, 45° and 90°
- √ 5 switching tolerance levels



Packaging, logistics, materials handling, food and beverage, filling machines, printing, quality control, sorting processes, tobacco industry, wood processing machines

Color sorting on drinks conveyor



HIGHLIGHTS

COLOR SENSORS

Color sensors utilize energetic-diffuse sensing technology to detect variations in target color, allowing color sorting or color control. A "teach-in" function is used to program up to three separate outputs. Five selectable tolerance levels for each output enable sensors to recognize or ignore even the smallest variations of color.

- √ 3 color teach channels with independent outputs
- √ High positioning tolerance
- ✓ High switching frequency: up to 4 kHz



Detection of anodized products



CONTRAST SENSORS

Contrast sensors are ideal for detecting print marks in printing, labelling and packaging processes. Excellent contrast resolution, a high switching frequency (up to 10 kHz) and five tolerance levels ensure accurate detection and positioning, even when contrast differences are minimal.

- ✓ Detection of very small print marks thanks to a narrow, collimated light spot
- √ RGB emission technology with best emission color automatically selected
- ✓ Excellent tolerance to target distance variations
- ✓ High switching frequency: up to 10 kHz



Detection of marks on cartons



Print-mark detection on label machine



•	10	_	.11	

V 10 LIIIK		
SERIES Housing size mm	4050 Color □40×50×15	4050 Contrast □40×50×15
Diffuse (s, mm)	40	12

Measurement grids

√ Ideal for position and

dimension control

✓ Analog output 0-10 V or 4-20 mA

✓ Measurement height: up to 1,418 mm



FAST DETECTION, COUNTING AND MEASUREMENT

LIGHT GRIDS

√ Ideal for detection and counting of

✓ Detection height: up to 2,010 mm

even the smallest objects

✓ Resolution: 0.9 mm, 2 mm,

4 mm, 8 mm or 25 mm

KEY ADVANTAGES

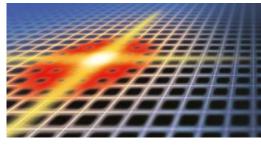
Detection grids

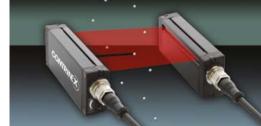
√ Fast response time

0.8 ms... 4.8 ms











Carton measurement and sorting

Counting of small objects √ Center beam spacing: 5 mm or 12 mm

INDUSTRIES

Packaging, logistics, materials handling, assembly, automation, laundry industry, small parts production, woodworking industry

SERIES Housing size mm	DGI □40×20.5×H	MGI □40×20.5×H
E Detection grids	8,000	-
Measurement grids	-	4,000



Shop 💯

ROBUST SPACE-SAVING DESIGN OFFERS **VERSATILITY AND SIMPLICITY**

FORK SENSORS

KEY ADVANTAGES

- √ High resolution: Ø0.1–0.2 mm
- √ High frequency up to 14 kHz
- √ 4 sensor modes: Standard, High Resolution, Power, Speed
- ✓ **② IO**-Link v1.1
- ✓ Sensitivity adjustment allowing detection of transparent objects
- ✓ Compact design accommodates photoelectric emitter and receiver in a single housing
- √ Push-pull output keeps inventory costs down while allowing exceptional flexibility
- √ Robust space-saving housing ensures precise alignment requiring no on-site adjustment





Beverage filling machines

INDUSTRIES

Robotics, packaging, materials handling, logistics, food and beverage



SERIES	U 10	U 20	U 30	U 40	U 50	U 80	U 100	U 120	
Housing size mm	□25×45×10	□40×50×10	□50×60×10	□60×70×10	□70×80×10	□100×80×10	□120×80×10	□144×90×12	
Through-beam (s, mm)	10	20	30	40	50	80	100	120	

SAFETY LIGHT CURTAINS





EXCELLENT PRICE/PERFORMANCE RATIO

BASIC STANDARD/SLIM

Light curtains are TÜV, CE and UL-certified according to IEC 61496-1 and -2 and ISO 13849-1. Protective heights range from 142 to 1,827 mm with permanent auto-control and low power consumption. The aluminum housings are slim $(26 \times 26 \text{ mm})$ or standard $(42 \times 48 \text{ mm})$ and connection is via an integral 5-pin M12 connector or pigtail.





RESOLUTION MM	HOUSING	CATEGORY	KEY ADVANTAGES
14	STANDARD	Cat. 4	✓ Max. operating range 3.5 m ✓ Operating temperature −35 +60°C ✓ IP65, IP67
30	STANDARD	Cat. 4	✓ Max. operating range 12 m ✓ Operating temperature −35 +60°C ✓ IP65, IP67
**************************************	SLIM	Cat. 2	✓ No blind zone ✓ Flexible mounting and connection ✓ Operating temperature 0 +55°C ✓ Max. operating range 8 m
300 400 500	STANDARD	Cat. 4	✓ Max. operating range 50 m ✓ Operating temperature −35 +60°C ✓ IP65, IP67

WIRELESS CONFIGURATION (Bluetooth)

EXTENDED SLIM

Type 4 light curtains from the EXTENDED SLIM range are TÜV, CE and UL certified according to IEC 61496-1/2, IEC 61508-1/2/3 and ISO 13849-1. Protective heights range from 170 to 1610 mm with integrated EDM*, restart interlock and beam coding. Since EDM includes a relay monitoring function, users can also avoid the cost of wired relays. Wireless configuration is easy via the free Bluetooth smartphone app. No additional tool or cable is required.

*External Device Monitoring





EXTENDED

14	SLIM	Cat. 4	 ✓ No blind zone ✓ Beam coding (3 channels), EDM, start and restart interlock configurable functions ✓ Wireless configuration through Bluetooth®
30	SLIM	Cat. 4	 ✓ No blind zone ✓ Beam coding (3 channels), EDM, start and restart interlock configurable functions ✓ Wireless configuration through Bluetooth®

SAFETY SENSORS



NON-CONTACT MONITORING OF DOORS

MAGNETIC, RFID

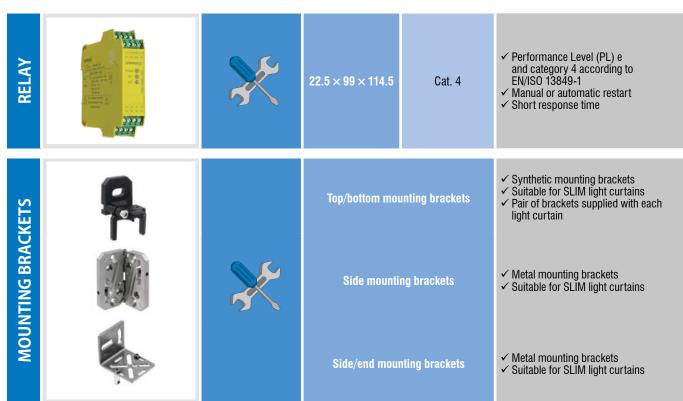
MAGNETIC and RFID safety sensors are ideal for monitoring guard doors, hoods or covers. Their compact housings with standard fixing are particularly suitable for washdown applications in the food industry. RFID types are also ideal for multi-sensor applications, such as long assembly lines. Thanks to non-contact operation and coded communication, service life is very long.



		PRINCIPLE	HOUSING MM	CATEGORY	KEY ADVANTAGES
VETIC	MAGNETIC	·	36 × 26 × 13	up to Cat. 4	✓ Magnetically coded, ISO 14119 type 4 ✓ Detection through metal plate possible ✓ IP6K9K, Ecolab
MAGI		1	88 × 25 × 13	up to Cat. 4	✓ Magnetically coded, ISO 14119 type 4 ✓ Detection through metal plate possible ✓ IP6K9K, Ecolab
RFID)1010 011	36 × 26 × 13	Cat. 4	✓ RFID coded, ISO 14119 type 4 ✓ Cascadable up to 30 units ✓ EDM and diagnostic function ✓ IP6K9K, Ecolab



RELAY, MOUNTING BRACKETS







Shop



BASIC AND USB SYSTEM

BASIC transponders (tags) and read/write modules (RWMs) provide cost-effective solutions with ISO/IEC 15693-compatible HF components and a proprietary LF system. Data protection is excellent, transfer time is fast and all components use the same ContriNET protocol with RS-485/USB physical layer. For hardware connection to a computer, USB RWMs provide a USB output and integral connector cable (2 m). Alternatively, a separate USB Adaptor enables a computer to communicate with up to 10 daisy-chained RWMs.



			FREQUENCY	HOUSING SIZE MM	READ/ WRITE DISTANCE MM	KEY ADVANTAGES		
					(IF)	Ø 20 Ø 30	028 029	
	ER			Ø50	041	✓ HF and LF passive tags, no battery		
	TRANSPONDER			Ø9	014	required ✓ LF tags embeddable in metal ✓ Insensitive to dirt		
	ANSF	• •		Ø16	030	✓ Temperature range −40 +125°C		
<u>u</u>	TR/		(F)	Ø 20	034	(−40+257°Ĕ) ✓ IP67		
AS	BASIC			Ø30	0 45			
<u> </u>			Ø 50	067				
			(F)	M18	036	✓ ContriNET RS-485 protocol with		
	5			M30	041	outstanding fieldbus coverage ✓ LF and HF RWMs can be daisy-chained		
	RWM			M18	031	on same network ✓ Temperature range −25 +80°C		
				M30	060	(−13 +176°F), IP67, integral S12 connector		
				C44	080			
				M18	036	(O and MET HOD are the selfered in a t		
	RWM	# 1		M30	041	✓ ContriNET USB protocol for direct connection to PC (non-networkable)		
<u> </u>	R.	1 1 .	(F)	M18	031	✓ Compatible with ContriNET BASIC support tools and DEMO software;		
USB				M30	060	DLL for easy development of custom solutions		
	INTER- FACE	The state of the s		67×66×28		√ Temperature range −25 +70°C (−13 +158°F), IP67, integral USB A male connector		

HIGH TEMPERATURE TAGS

Designed for environments up to 180°C or 250°C, HIGH TEMPERATURE tags offer exceptional longevity and a thermal cycling reliability of 1,000 hours (or 1,000 cycles). Tags are insensitive to dirt and provide 160 and 2,048 Bytes of user memory. As passive devices, no battery or other power source is required. Housings are impervious (IP68 & IP69K).



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Ø 26	031
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- ✓ HF tag RTP-0263-020: -25...+180°C (-13...+356°F), embeddable in metal
- ✓ HF tags RTP-0502-062: -25... +250°C (-13... +482°F), 100% silicone-free





EXTREME AND WASHDOWN SYSTEM

Read/write modules (RWMs) and embeddable tags from these two ranges feature robust, full-metal, stainless-steel construction. They offer outstanding performance in metallic environments and are insensitive to dirt and metal chips. For the highest mechanical and chemical resistance, WASHDOWN components in food-grade stainless steel (V4A/AISI 316L) are fully sealed and laser welded. They function reliably when immersed in fluids such as water or oil.



					HOUSING SIZE MM	READ/ WRITE DISTANCE MM	KEY ADVANTAGES
	œ		_		Ø10	017	✓ LF passive tags, no battery required
	TRANSPONDER				Ø16	019	✓ All-metal, stainless-steel housings (V2A/AISI 304) resist corrosion, impact
	SPO				M16	013	and abrasion ✓ Temperature range −40 +95°C
ш	L WAN				Ø 26	026	$(-40+203^{\circ}F)$
Π					M30	023	✓ ÌP68 & IP69K (when embedded in metal)
EXTREME		-	具		M18	012	✓ ContriNET RS-485 protocol with outstanding fieldbus coverage ✓ All-metal, stainless-steel housing
	RWM				M30	012	(V2A/AISI 304) resists corrosion, impact and abrasion ✓ Temperature range —25 +80°C (—13 +176°F), IP68 & IP69K, integral S12 connector
					Ø10	013	
	DER	0 9		(IF)	Ø16	013	✓ LF passive tags, no battery required✓ All-metal housings in food-grade stainless
	TRANSPONDER	9 0			M16	013	steel (V4A/AISI 316L) resist saltwater, solvents, corrosion, impacts and abrasion
Z	ANS				Ø26	026	✓ Temperature range −40 +125°C (−40 +257°F)
S	T. H.				M30	023	✓ IP68 & IP69K
WASHDOWN	٧	RWM	国		M18	012	✓ ContriNET RS-485 protocol with outstanding fieldbus coverage ✓ All-metal housing in food-grade stainless
8	RWN			M30	012	steel (V4A/AISI 316L) resists saltwater, solvents, corrosion, impacts and abrasion ✓ Temperature range -40 +125°C (-40 +257°F), IP68 & IP69K, integral S12 connector	

IO-Link R/W MODULES

Ideal for Industry 4.0 solutions, @ IO-Link read/write modules (RWMs) combine two of the key communication standards in one device: ISO 15693 at the readwrite head for communication with tags and ISO 61131-9 at the S12 connector for communication with the control system. Their simplified, plug-and-play installation ensures easy, cost-effective integration.







	M18	042
(F)	M30	060
	C44	80

- ✓ **② IO**-Link protocol V1.1 with two operating
 - IO-Link device: UID, Read, Write, Auto-Read and Auto-Write commands selectable from the RWM process data
 - Stand-alone SIO: Tag presence / memory
- data comparison / RWM Alarms
 Temperature range -25... +80°C
 (-13... +176°F), IP67, integral S12 connector

CONNECTIVITY



INDUCTIVE & PHOTOELECTRIC CABLES



CABLE CONNECTION END



CONNECTOR	PINS	CONFIG.	CABLE MATERIAL	CABLE LENGTH	WIRE	CABLE CONNECTION END	PINS	PART REFERENCE
● M8	3-pole	straight	PUR	2 m	3	OPEN CABLE	-	S08-3FUG-020
● M8	3-pole	right angle	PUR	2 m	3	OPEN CABLE	-	S08-3FUW-020
● • M8	3-pole	straight	PVC	2 m	3	OPEN CABLE	-	S08-3FVG-020
●● M8	3-pole	right angle	PVC	2 m	3	OPEN CABLE	-	S08-3FVW-020
● M8	4-pole	straight	PUR	2 m	4	OPEN CABLE	-	S08-4FUG-020
● M8	4-pole	right angle	PUR	2 m	4	OPEN CABLE	-	S08-4FUW-020
● M8	4-pole	straight	PVC	2 m	4	OPEN CABLE	-	S08-4FVG-020
● M8	4-pole	right angle	PVC	2 m	4	OPEN CABLE	-	S08-4FVW-020
€ M12	4-pole	straight	PUR	2 m	4	OPEN CABLE	-	S12-4FUG-020
M12	4-pole	right angle	PUR	2 m	4	OPEN CABLE	-	S12-4FUW-020
€ M12	4-pole	straight	PVC	2 m	4	OPEN CABLE	-	S12-4FVG-020
№ M12	4-pole	right angle	PVC	2 m	4	OPEN CABLE	-	S12-4FVW-020

ACCESSORIES

















WHY CHOOSE US

- ✓ Companies around the world trust us to solve their sensor problems
- ✓ Like our sensors, our engineering teams thrive on your toughest challenges
- ✓ You can rely on leading-edge Swiss technology, certified to international standards
- ✓ Our Connected Smart Sensors are IIoT-capable and ready for your transition to Industry 4.0
- ✓ Our products withstand extremes of environment, weather and contamination

CUSTOMER FOCUS

- ✓ Global sales network covering 60+ countries
- ✓ International customer services
- √ Solution-oriented application support
- ✓ 3 production sites for worldwide availability
- √ 3 logistics hubs for rapid delivery

ALL OVER THE WORLD

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