



APPLICATION

Inductive sensors confirm retraction of stabilizer legs in mobile cranes

A manufacturer of mobile cranes uses two-wire inductive sensors with N.C. output function to detect the position of stabilizer legs as part of the vehicle safety system. Before the system will allow the driver to drive the vehicle away, sensors confirm that stabilizer legs have been retracted.

INDUSTRIES

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



Automotive part sensing



Spindle-cutting machine tool



Textile spinning machine automation



Logistics

2-WIRE INDUCTIVE SENSORS

EASY INSTALLATION AND HIGH SWITCHING FREQUENCY

The **2-Wire** range of DC, AC/DC and NAMUR sensors is constructed on the **Classics** technology platform and includes sizes from \emptyset 3 to M30, plus a 5 × 5 mm square-section type. Devices are available for embeddable or non-embeddable mounting and connection is by means of cable or connector. With a sensing range up to **15 mm**, Contrinex **2-Wire** sensors ensure optimal equipment utilization.

KEY ADVANTAGES

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

PRODUCT OVERVIEW

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

ACCESSORIES

Go to page 298 to see all the accessories



INDUCTIVE SENSORS 2-WIRE



COMMON FEATURES

 Output
 NO or NAMUR

 * Other type available: NC

OUTPUT

Go to page 116 for details

ACCESSORIES

A Group A: M8 3-pin
Sub-group: Field attachable connectors Sub-group: Distribution boxes
B Group B: M8 4-pin
Group C: M12 4-pin
Sub-group: Field attachable connectors Sub-group: Distribution boxes
Group D: M12 AC/DC 3-pin
Group E: Universal mounting brackets
Sub-group: Mechanical stops
Group F: Photoelectric mounting brackets
Group G: Photoelectric reflectors
Group H: Sensor tester
Go to page 298 for details
CARLES
CABLES

Cable lengths available: 2 m, 5 m, 10 m

other customised lengths possible

	FAMILY	OPERATING DISTANCE (mm)	HOUSING SIZE (mm)	HOUSING LENGTH (mm)	HOUSING MATERIAL	
		0.6	Ø 3	22	Stainless steel V2A	
		0.6	Ø 3	22	Stainless steel V2A	
		0.6	M4	22	Stainless steel V2A	
		0.6	M4	22	Stainless steel V2A	
		0.8	Ø 4	25	Stainless steel V2A	
		0.8	Ø 4	38	Stainless steel V2A	
		0.8	M5	25	Stainless steel V2A	
		0.8	M5	38	Stainless steel V2A	
		0.8	5×5 (C5)	25	Nickel-chrome- plated brass	
		0.8	5 × 5 (C5)	25	Nickel-chrome- plated brass	
		1.5	Ø 6.5	16	Stainless steel V2A	
		1.5	Ø 6.5	35	Stainless steel V2A	
	CLASSICS – SERIES 600	2	Ø 6.5	35	Stainless steel V2A	
		1.5	M8	16	Stainless steel V2A	
	- St	1.5	M8	35	Stainless steel V2A	
	sics	2.5	M8	35	Stainless steel V2A	
	CLAS	1.5	M8	45	Stainless steel V2A	
	Ũ	1.5	M8	45	Stainless steel V2A	
		2.5	M8	45	Stainless steel V2A	
		2.5	M8	45	Stainless steel V2A	
ets		2	M8	35	Stainless steel V2A	
		2	M8	45	Stainless steel V2A	
		2	M12	50	Chrome-plated brass	
		2	M12	60	Chrome-plated brass	
		4	M12	50	Chrome-plated brass	
		4	M12	60	Chrome-plated brass	
		4	M12	50	Chrome-plated brass	
		4	M12	60	Chrome-plated brass	
		4	M12	35	Chrome-plated brass	
		4	M12	45	Chrome-plated brass	

VIEW INDUCTIVE DATASHEETS

www.contrinex.com/collections/inductive-2-wire

CABLE	CONNECTOR	SUPPLY VOLTAGE	SWITCHING FREQUENCY (Hz)	MOUNTING EMB. NON-EMB.	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE*	ACCESSORIES (SEE PAGE 68)
PUR		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-03	E
	(***) M8	7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AS-605-03	AE
PUR		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-M4	E
	••• M8	7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AS-605-M4	AE
PVC		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-04	E
	••• M8	7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AS-605-04	AE
PVC		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-M5	E
	••• M8	7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AS-605-M5	AE
PUR		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-C5	
	••• M8	7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AS-605-C5	A
PVC		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-065-120	E
PVC		10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DD-605-065	E H
PVC		10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DD-625-065	EH
PVC		7.7 9 VDC	10,000	Embed.	−25+70°C	IP67	DW-AD-605-M8-120	E
PVC		10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DD-605-M8	E H
PVC		10 65 VDC	5,000	Non-embed.	−25+70°C	IP67	DW-DD-615-M8	E H
	M12	10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DS-605-M8	C E H
	••• M8	1065 VDC	5,000	Embed.	−25+70°C	IP67	DW-DS-605-M8-001	AEH
	M12	10 65 VDC	5,000	Non-embed.	−25+70°C	IP67	DW-DS-615-M8	
	••• M8	10 65 VDC	5,000	Non-embed.	−25+70°C	IP67	DW-DS-615-M8-001	AEH
PVC		10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DD-625-M8	E H
	••• M8	10 65 VDC	5,000	Embed.	−25+70°C	IP67	DW-DS-625-M8-001	AEH
PVC		10 65 VDC	3,000	Embed.	−25+70°C	IP67	DW-DD-605-M12	E H
	M12	10 65 VDC	3,000	Embed.	−25+70°C	IP67	DW-DS-605-M12	C E H
PVC		10 65 VDC	2,500	Non-embed.	−25+70°C	IP67	DW-DD-615-M12	E H
	M12	1065 VDC	2,500	Non-embed.	−25+70°C	IP67	DW-DS-615-M12	C E H
PVC		1065 VDC	2,000	Embed.	−25+70°C	IP67	DW-DD-625-M12	E H
	M12	1065 VDC	2,000	Embed.	−25+70°C	IP67	DW-DS-625-M12	C E H
PVC		1065 VDC	2,000	Embed.	−25+70°C	IP67	DW-DD-625-M12-120	EH
	•••• M12	1065 VDC	2,000	Embed.	−25+70°C	IP67	DW-DS-625-M12-120	C E H

Detailed data sheets for these products can be found on the Contrinex website:

2-WIRE

INDUCTIVE SENSORS 2-WIRE



COMMON FEATURES

 Output
 NO or NAMUR

 * Other type available: NC

OUTPUT

Go to page 116 for details

ACCESSORIES

A Group A: M8 3-pin Sub-group: Field attachable connectors
Sub-group: Distribution boxes B Group B: M8 4-pin
Group C: M12 4-pin Sub-group: Field attachable connectors
Sub-group: Distribution boxes
E Group E: Universal mounting brackets Sub-group: Mechanical stops
Group F: Photoelectric mounting brackets
G Group G: Photoelectric reflectors
H Group H: Sensor tester
Go to page 298 for details
CABLES

Cable lengths available: 2 m, 5 m, 10 m

other customised lengths possible

ĺ	FAMILY	OPERATING DISTANCE (mm)	HOUSING SIZE (mm)	HOUSING LENGTH (mm)	HOUSING MATERIAL
		2	M12	35	Chrome-plated brass
		2	M12	45	Chrome-plated brass
		4	M12	35	Chrome-plated brass
		4	M12	45	Chrome-plated brass
		2	M12	50	Chrome-plated brass
		2	M12	35	Chrome-plated brass
		4	M12	50	Chrome-plated brass
		4	M12	35	Chrome-plated brass
		2	M12	50	Chrome-plated brass
		4	M12	50	Chrome-plated brass
		4	M12	50	Chrome-plated brass
	0	2	M12	60	Chrome-plated brass
	CLASSICS – SERIES 600	4	M12	60	Chrome-plated brass
		4	M12	60	Chrome-plated brass
	- S	5	M18	50	Chrome-plated brass
	SICS	5	M18	63.5	Chrome-plated brass
	CLAS	8	M18	50	Chrome-plated brass
		8	M18	63.5	Chrome-plated brass
		8	M18	50	Chrome-plated brass
		8	M18	63.5	Chrome-plated brass
ets		5	M18	35	Chrome-plated brass
		5	M18	48.5	Chrome-plated brass
		8	M18	35	Chrome-plated brass
		8	M18	48.5	Chrome-plated brass
		8	M18	35	Chrome-plated brass
		8	M18	48.5	Chrome-plated brass
		5	M18	50	Chrome-plated brass
		5	M18	35	Chrome-plated brass
		5	M18	50	Chrome-plated brass
		8	M18	50	Chrome-plated brass

VIEW INDUCTIVE DATASHEETS

www.contrinex.com/collections/inductive-2-wire

CABLE	CONNECTOR	SUPPLY VOLTAGE	SWITCHING FREQUENCY (Hz)	MOUNTING EMB. NON-EMB.	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE*	ACCESSORIES (SEE PAGE 70)
PVC		10 65 VDC	3,000	Embed.	−25+70°C	IP67	DW-DD-605-M12-120	E H
	M12	1065 VDC	3,000	Embed.	−25+70°C	IP67	DW-DS-605-M12-120	C E H
PVC		1065 VDC	2,500	Non-embed.	−25+70°C	IP67	DW-DD-615-M12-120	E H
	M12	10 65 VDC	2,500	Non-embed.	-25+70°℃	IP67	DW-DS-615-M12-120	C E H
PVC		7.7 9 VDC	2,500	Embed.	−25+70°C	IP67	DW-AD-605-M12	E
PVC		7.7 9 VDC	2,500	Embed.	−25+70°C	IP67	DW-AD-605-M12-120	E
PVC		7.7 9 VDC	1,000	Non-embed.	−25+70°C	IP67	DW-AD-615-M12	E
PVC		7.7 9 VDC	1,000	Non-embed.	−25+70°C	IP67	DW-AD-615-M12-120	E
PVC		20265/10320 VAC/VDC	25 Hz AC / 3,000 Hz DC	Embed.	−25+70°C	IP67	DW-AD-607-M12	E H
PVC		20265/10320 VAC/VDC	25 Hz AC / 2,000 Hz DC	Non-embed.	−25+70°C	IP67	DW-AD-617-M12	E H
PVC -		20265/10320 VAC/VDC	25 Hz AC / 2,000 Hz DC	Embed.	−25+70°C	IP67	DW-AD-627-M12	E H
	UNF 1/2"	20265/10320 VAC/VDC	25 Hz AC / 3,000 Hz DC	Embed.	−25+70°C	IP67	DW-AS-607-M12-069	DEH
	• UNF 1/2"	20265/10320 VAC/VDC	25 Hz AC / 2,000 Hz DC	Non-embed.	−25+70°C	IP67	DW-AS-617-M12-069	DEH
	• UNF 1/2"	20265/10320 VAC/VDC	25 Hz AC / 2,000 Hz DC	Embed.	−25+70°C	IP67	DW-AS-627-M12-069	DEH
PVC		10 65 VDC	1,500	Embed.	−25+70°C	IP67	DW-DD-605-M18	E H
	(***) M12	10 65 VDC	1,500	Embed.	−25+70°C	IP67	DW-DS-605-M18-002	C E H
PVC		1065 VDC	1,200	Non-embed.	−25+70°C	IP67	DW-DD-615-M18	E H
	M12	1065 VDC	1,200	Non-embed.	−25+70°C	IP67	DW-DS-615-M18-002	C E H
PVC		1065 VDC	1,000	Quasi-embed.	−25+70°C	IP67	DW-DD-625-M18	E H
	(***) M12	1065 VDC	1,000	Quasi-embed.	−25+70°C	IP67	DW-DS-625-M18-002	C E H
PVC		1065 VDC	1,500	Embed.	−25+70°C	IP67	DW-DD-605-M18-120	E H
	(***) M12	1065 VDC	1,500	Embed.	−25+70°C	IP67	DW-DS-605-M18-120	C E H
PVC		1065 VDC	1,200	Non-embed.	−25+70°C	IP67	DW-DD-615-M18-120	E H
	(***) M12	1065 VDC	1,200	Non-embed.	−25+70°C	IP67	DW-DS-615-M18-120	C E H
PVC		1065 VDC	1,000	Quasi-embed.	−25+70°C	IP67	DW-DD-625-M18-120	E H
	M12	1065 VDC	1,000	Quasi-embed.	−25+70°C	IP67	DW-DS-625-M18-120	C E H
PVC		7.7 9 VDC	1,000	Embed.	−25+70°C	IP67	DW-AD-605-M18	E
PUR		7.7 9 VDC	1,000	Embed.	−25+70°C	IP67	DW-AD-605-M18-120	E
PVC		20265/10320 VAC/VDC	25 Hz AC / 1,500 Hz DC	Embed.	−25+70°C	IP67	DW-AD-607-M18	E H
PVC		20265/10320 VAC/VDC	25 Hz AC / 1,200 Hz DC	Non-embed.	−25+70°C	IP67	DW-AD-617-M18	E H

Detailed data sheets for these products can be found on the Contrinex website:

INDUCTIVE SENSORS 2-WIRE

F

CL



COMMON FEATURES

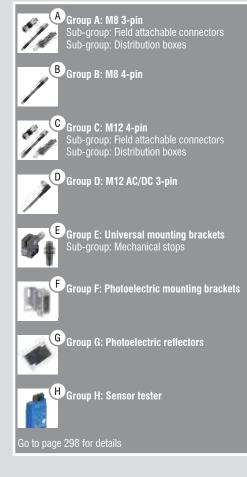
 Output
 NO or NAMUR

 * Other type available: NC

OUTPUT

Go to page 116 for details

ACCESSORIES



		6
	P	
1		
H.		

CABLES Cable lengths available: 2 m, 5 m, 10 m other customised lengths possible

FAMILY	OPERATING DISTANCE (mm)	HOUSING SIZE (mm)	HOUSING LENGTH (mm)	HOUSING MATERIAL
	5	M18	63.5	Chrome-plated brass
	8	M18	63.5	Chrome-plated brass
	10	M30	50	Chrome-plated brass
	10	M30	63.5	Chrome-plated brass
	15	M30	50	Chrome-plated brass
	15	M30	63.5	Chrome-plated brass
	10	M30	35	Chrome-plated brass
	10	M30	48.5	Chrome-plated brass
	15	M30	35	Chrome-plated brass
	15	M30	48.5	Chrome-plated brass
	10	M30	50	Chrome-plated brass
-	10	M30	35	Chrome-plated brass
5 60(10	M30	50	Chrome-plated brass
	15	M30	50	Chrome-plated brass
ASSICS – SERIES 600	10	M30	63.5	Chrome-plated brass
SICS	15	M30	63.5	Chrome-plated brass
AS				

72 We made these pages with care, but we decline liability for any errors or omissions.

VIEW INDUCTIVE DATASHEETS

www.contrinex.com/collections/inductive-2-wire

CABLE	CONNECTOR	SUPPLY VOLTAGE	SWITCHING FREQUENCY (Hz)	MOUNTING Emb. Non-Emb. 22 22 22 22	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE*	ACCESSORIES (SEE PAGE 72)
	UNF 1/2"	20265/10320	25 Hz AC /	Embed.	−25…+70°C	IP67	DW-AS-607-M18-069	DEH
	UNF 1/2"	VAC/VDC 20265/10320 VAC/VDC	1,500 Hz DC 25 Hz AC / 1,200 Hz DC	Non-embed.	−25+70°C	IP67	DW-AS-617-M18-069	
PVC	-	1065 VDC	600	Embed.	−25+70°C	IP67	DW-DD-605-M30	E H
	••• M12	10 65 VDC	600	Embed.	−25+70°C	IP67	DW-DS-605-M30-002	C B H
PVC		1065 VDC	500	Non-embed.	−25+70°C	IP67	DW-DD-615-M30	E H
	(***) M12	1065 VDC	500	Non-embed.	−25…+70°C	IP67	DW-DS-615-M30-002	
PVC		1065 VDC	600	Embed.	−25+70°C	IP67	DW-DD-605-M30-120	E H
	M12	1065 VDC	600	Embed.	−25…+70°C	IP67	DW-DS-605-M30-120	C E H
PVC		1065 VDC	500	Non-embed.	−25+70°C	IP67	DW-DD-615-M30-120	E H
	M12	1065 VDC	500	Non-embed.	−25+70°C	IP67	DW-DS-615-M30-120	
PVC		7.7 9 VDC	400	Embed.	−25+70°C	IP67	DW-AD-605-M30	E
PVC		7.7 9 VDC	400	Embed.	−25+70°C	IP67	DW-AD-605-M30-120	E
PVC		20265/10320 VAC/VDC	25 Hz AC / 600 Hz DC	Embed.	−25+70°C	IP67	DW-AD-607-M30	E H
PVC		20265/10320 VAC/VDC	25 Hz AC / 500 Hz DC	Non-embed.	−25+70°C	IP67	DW-AD-617-M30	E H
	UNF 1/2"	20265/10320 VAC/VDC	25 Hz AC / 600 Hz DC	Embed.	−25+70°C	IP67	DW-AS-607-M30-069	
	• UNF 1/2"	20265/10320 VAC/VDC	25 Hz AC / 500 Hz DC	Non-embed.	−25+70°C	IP67	DW-AS-617-M30-069	

INDUCTIVE SENSORS REFERENCE KEY

DW-AD-503-M8E (-12X/-XXX)

INDUCTIVE SENSOR	DW
SENSOR TYPE	-
Conventional	Α
2-wire DC (NAMUR excepted)	D
High-temperature	н
Food and sea-water	L
Maritime	М
CONNECTION	-
Cable	D
Connector	S
Cable + connector	V
SERIES	
500 / 520 (Extra Distance)	5
600 / 620 (Classics)	6
700 (Full Inox)	7
Embeddable / quasi-embeddable	0
Non-embeddable	1
Increased operating distance, (quasi-)embeddable	2
Increased operating distance, non-embeddable	3
OUTPUT	
NPN NO	1
NPN NC	2

NPN NC	2
PNP NO	3
PNP NC	4
PNP changeover	Α
NPN changeover	В

SHO	ORT / SPECIAL EXECUTIO	NS
Serie	es E (impervious)	E
	es 700P (all-metal and -pressure resistant)	G
НО	USING SIZE	
Thr	eaded	
M4		4
M5		5
M8		8
M12		12
M18		18
M30)	30
M50	1	50
Smo	ooth	
Ø3	mm	3
Ø4	mm	4
Ø6.	5 mm	65
Ø8	mm	80
5 ×	5 mm	5
8 ×	8 mm	8
20 >	< 32 mm	23
40 >	< 40 mm	44
НО	USING	
Thre	aded cylindrical housing	м
	angular housing	C
	ooth cylindrical housing	0
	-pressure resistant	P
OU	TPUT	

OUTPUT	
2-wire DC	
NO / NAMUR	5
NC	6
2-wire AC/DC	
NO	7
NC	8
Analog	9

INTRODUCTION

TECHNOLOGY

Contrinex inductive devices work according to one of three different technologies. All involve the generation of an alternating magnetic field that emerges at the sensing face. The presence of a conductive, generally metallic, object influences this field in a way that can be detected and evaluated by built-in electronics. All Contrinex ASIC sensors are IO-Link enabled in PNP NO versions.





Conventional technology, engineered by Contrinex

The **Classics** family uses conventional inductive sensor technology, but with the benefit of a Contrinex ASIC (application specific integrated circuit). ASIC technology ensures reliability, stability and ease of commissioning, due to low variation. Sensors in this family achieve operating distances up to $2 \times$ the industry standard. All ASIC sensors in the **Classics** family are IO-Link enabled in PNP NO versions.

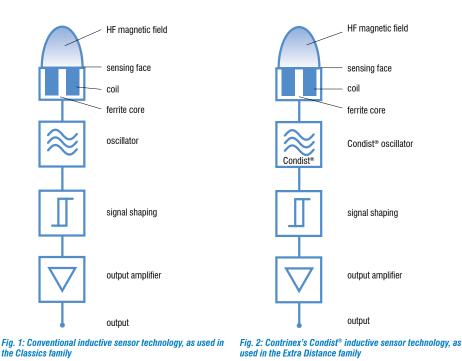
Classics sensors have a conventional oscillator and coil generating a high-frequency magnetic field that emerges at the sensing face. Any metallic object found in this field absorbs some of the energy, which is in turn detected and evaluated by built-in electronics (Fig. 1). Ferromagnetic metals (steel, nickel, cobalt) absorb the most energy. The achievable operating distances are therefore greatest with these metals. Non-ferromagnetic metals, such as aluminum, absorb less energy. As a result, operating distances are lower (approx. 25... 45% of those on steel).

The **Classics** technology family (series 600) includes devices from the ranges **Basic**, **Miniature**, **Extra Pressure**, **Extra Temperature**, **High Temperature**, **Washdown** and **2-Wire**.



Increased stability for exceptionally long operating distance

The **Extra Distance** family is based on the Condist[®] oscillator developed by Contrinex. Sensors benefit from **up to 4 \times the standard** operating distance, keeping them out of harm's way in rugged, industrial environments. Sensor lifetime is therefore increased.



DTEA ASTANC

Like **Classics** family sensors, these also generate a high-frequency magnetic field that emerges at the sensing face (Fig. 2). Again, the resulting effect is that any metallic object entering the field absorbs energy from it.

However, the oscillator and the subsequent signal evaluation circuit are completely different, with the objective of achieving a significantly **better stability** with respect to environmental influences, in particular temperature. The most important contribution to this comes from the Contrinex Condist[®] oscillator.

Improved stability permits the switch point to be further away, leading to **long operating distances** on ferromagnetic metals (Fig. 3). Sensors with this technology also react particularly well to **narrow targets**, e.g. small screws, wires and foils.

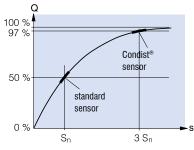


Fig. 3: Extra Distance family sensors have a longer operating distance, due to Condist[®] oscillator technology

Apart from the Condist[®] oscillator, all other assemblies are equivalent to the **Classics** family. Material

dependencies and other properties are also the same as for **Classics** family sensors.

Special attention has been paid to **meet the relevant standards as much as possible**, so that easy **interchangeability** with conventional devices is guaranteed. Great emphasis has been placed on very good EMC resistance and on perfect sealing against liquid penetration.

The Extra Distance technology family includes devices from the Basic, Miniature, Extra Pressure, High Pressure and Analog Output ranges. This technology is used in series 500 devices.



All-round stainless steel protection – practically indestructible

The **Full Inox** family is based on Contrinex's Condet[®] technology. These one-piece stainless steel sensors are not only the most durable on the market, they also offer long operating distances on any conductive metal.

Full Inox sensors also function according to inductive technology. However, the coil which generates

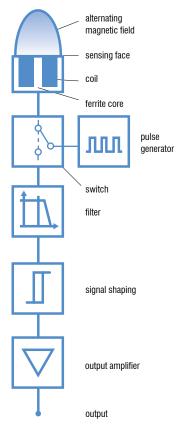
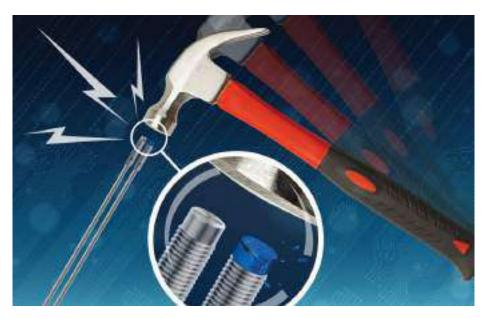


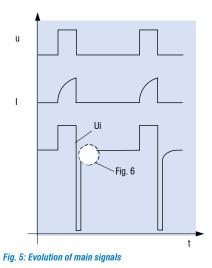
Fig. 4: Full Inox family sensors use Condet® pulse generator technology instead of an oscillator



the magnetic field is not part of the oscillator (Fig. 4). Instead, the field is generated by periodic, short transmitter current pulses, which flow through the coil (Fig. 5). This field induces a voltage in the target which, in turn, generates a current flow in it. When the **transmitter current pulse** is switched off, the current in the object dies away, causing a **voltage to be induced** in the transmitting coil (Fig. 6).

This voltage generates the signal required, and is in principle **independent of the field's energy loss**. Therein lies the fundamental advantage of this technology, since the field energy losses, which are evaluated in conventional sensors, are subject to a number of undesirable environmental and material influences. Condet[®] technology allows the sensor, including its face, to be fully encapsulated in a protective, stainless steel housing, with the added security of long operating distances.

The coupling between the target and the coil is rather like a transformer, and is hence temperature independent and only slightly influenced



by the target's material. Operating distances are therefore identical on steel and aluminum. Only metals which are non-ferromagnetic and also have poor electrical conductivity give a reduced usable signal.

The Full Inox family includes devices from the Basic, Miniature, Extreme, High Pressure, Washdown, Weld-Immune, Chip-Immune, Maritime and Double-Sheet ranges.



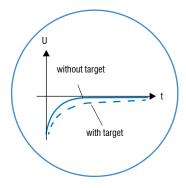


Fig. 6 (detail fig. 5): Effect of a target on the measured signal

♦ IO-Link FUNCTIONALITY*





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, undervoltage, LC oscillator failure or installation of the wrong sensor, information is provided directly through **IO**-Link to enable fast repair, maintenance and replacement.



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 **O** 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.



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.



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.



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

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



* Functionalities may vary depending on series and sensor type

INTRODUCTION

CONTRINEX



Contrinex is a leading manufacturer of sensors for factory automation. The Swiss company, headquartered in Corminboeuf near Fribourg (CH), has a unique and innovative range of products whose features far surpass those of standard sensors.

Since its foundation in 1972 by Peter Heimlicher, Dipl Ing ETH, Contrinex has grown from a one-man operation to a multinational group with over 580 employees worldwide. More than 13 subsidiaries cover the core markets in Europe, Asia, North and South America.

- tant sensors)
- Represented in over 60 countries worldwide, headquarters in Switzerland
- 8,000 products

Technology leader for sensor intelligence and industrial **RFID**

INTELLIGENT SENSORS FOR THE 4TH INDUSTRIAL REVOLUTION: INDUSTRY 4.0

Fit for the future with IO-Link

Intelligent sensors are the fundamental building blocks of modern smart factories. They enable sensor-supported production resources (machines, robots, etc.) to configure, control, manage and optimize themselves. Precise, reliable sensor data is now more essential than ever.

Sensors from Contrinex, the leader in intelligent sensor technology, ensure excellent data quality. To communicate that data, all Contrinex inductive and photoelectric ASIC sensors will be equipped with IO-Link as standard. Customers use either the sensor's binary PNP output or its intelligent IO-Link interface. Both are available in one and the same device.

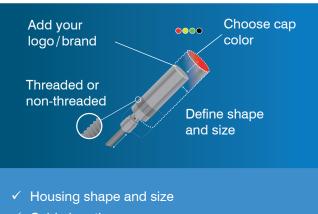
Another advantage is the fact that, with Contrinex sensors, there is no extra charge for IO-Link. This makes them not only quick and simple to install, but also highly economic.

As the first standardized IO technology worldwide (IEC 61131-9) for communication with sensors and actuators, IO-Link is crucial to the 4th Industrial Revolution. By installing Contrinex ASIC sensors with IO-Link, users can make themselves fit for the future.

CUSTOMIZATION

Contrinex has extensive experience in product customization and brand labelling. Over the years, a team of specialists has worked with clients to design, develop and manufacture numerous unique products that meet individual specifications. Custom solutions can range from a very simple adaptation such as a special connector or cable to a new design with special signals, technical characteristics or a customized housing. The company is also equipped to meet branding requirements for product color, packaging, labelling and logos.

Production sites are available worldwide, so products can be manufactured for best availability and in quantities that suit the client's requirements. Quality is assured by vigorous lab testing, pre-shipment inspections and compliance with market standards. All production sites are open to quality audits by clients.



- ✓ Cable length
- ✓ Embeddable / non-embeddable
- ✓ Threaded / non-threaded
- ✓ Selected technical characteristics

LIVE SENSOR DATA FOR IoT



298 Detailed data sheets for these products can be found on the Contrinex website:

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HIGHLIGHTS

- ✓ Comprehensive cable and connector program
- ✓ IP69K and Ecolab-certified cables for the food and beverage industry (on demand)
- ✓ UL-approved cables and connectors
- ✓ Cables with straight or right-angle sockets
- ✓ Distribution boxes
- ✓ Field-attachable connectors
- ✓ T-connectors (on demand)
- ✓ User-friendly standard portfolio
- ✓ Sensor testers for fast field checks
- ✓ Sensor mounting clamps
- ✓ Bases for mounting clamps
- ✓ Mechanical stops
- ✓ Amplifiers for 3-wire and NAMUR sensors (on demand)

INDUCTIVE & PHOTOELECTRIC CABLES Group

M8 3-PIN





connecting cables

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	straight	PUR	5 m	3	OPEN CABLE	-	S08-3FUG-050
••• M8	3-pole	straight	PUR	10 m	3	OPEN CABLE	-	S08-3FUG-100
••• M8	3-pole	right angle	PUR	2 m	3	OPEN CABLE	-	S08-3FUW-020
••• M8	3-pole	right angle	PUR	5 m	3	OPEN CABLE	-	S08-3FUW-050
••• M8	3-pole	right angle	PUR	10 m	3	OPEN CABLE	-	S08-3FUW-100
••• M8	3-pole	straight	PVC	2 m	3	OPEN CABLE	-	S08-3FVG-020
••• M8	3-pole	straight	PVC	5 m	3	OPEN CABLE	-	S08-3FVG-050
••• M8	3-pole	straight	PVC	10 m	3	OPEN CABLE	-	S08-3FVG-100
••• M8	3-pole	right angle	PVC	2 m	3	OPEN CABLE	-	S08-3FVW-020
••• M8	3-pole	right angle	PVC	5 m	3	OPEN CABLE	-	S08-3FVW-050
••• M8	3-pole	right angle	PVC	10 m	3	OPEN CABLE	-	S08-3FVW-100
••• M8	3-pole	straight	PUR	0.6 m	-	••• M8	3	S08-3FUG-006-08MG
••• M8	3-pole	straight	PUR	2 m	-	••• M8	3	S08-3FUG-020-08MG
••• M8	3-pole	straight	PUR	5 m	-	••• M8	3	S08-3FUG-050-08MG
••• M8	3-pole	straight	PVC	0.6 m	-	••• M8	3	S08-3FVG-006-08MG
••• M8	3-pole	straight	PVC	2 m	-	••• M8	3	S08-3FVG-020-08MG
••• M8	3-pole	straight	PVC	5 m	-	••• M8	3	S08-3FVG-050-08MG

VIEW CONNECTIVITY DATASHEETS

www.contrinex.com/collections/connectivity

CONNECTOR	PINS	CONFIG.	OUTER Ø	WIRE Ø	PART REFERENCE
••• M8	3-pole	straight	3.0–5.0	0.08–0.38	S08-3FNG-000-NNT1
••• M8	3-pole	straight	4.0-8.0	0.14–0.50	S08-3FNG-000-NNT2
••• M8	3-pole	straight	3.0–5.0	0.08–0.38	S08-3MNG-000-NNT1
••• M8	3-pole	straight	4.0-8.0	0.14–0.50	S08-3MNG-000-NNT2



DISTRIBUTION BOXES

CONNECTOR	PINS	NUMBER OF CONNECTIONS	CONNECTION TYPE	PART REFERENCE
••• M8	3-pole	Universal – Hood	No cable	V08-30PE-000-NNN
••• M8	3-pole	10 Plug Distribution box	PUR cable 5 m	V08-31PD-050-UYN
••• M8	3-pole	10 Outputs – Hood	PUR cable 5 m	V08-31PH-050-UNN
••• M8	3-pole	4 Plug Distribution box	No cable (hood needed)	V08-34PB-000-NYN
••• M8	3-pole	4 Plug Distribution box	PUR cable 5 m	V08-34PD-050-UYN
••• M8	3-pole	8 Plug Distribution box	No cable (hood needed)	V08-38PB-000-NYN
••• M8	3-pole	8 Plug Distribution box	PUR cable 5 m	V08-38PD-050-UYN
••• M8	3-pole	8 Outputs – Hood	PUR cable 5 m	V08-38PH-050-UNN



INDUCTIVE & PHOTOELECTRIC CABLES Group B

M84-PIN





CONNECTOR	PINS	CONFIG.	CABLE MATERIAL	CABLE LENGTH	WIRE	CABLE CONNECTION END	PINS	PART REFERENCE
M8	4-pole	straight	PUR	2 m	4	OPEN CABLE	-	S08-4FUG-020
(***) *** M8	4-pole	straight	PUR	5 m	4	OPEN CABLE	-	S08-4FUG-050
(***) *** M8	4-pole	straight	PUR	10 m	4	OPEN CABLE	-	S08-4FUG-100
(***) *** M8	4-pole	right angle	PUR	2 m	4	OPEN CABLE	-	S08-4FUW-020
(* *) * M8	4-pole	right angle	PUR	5 m	4	OPEN CABLE	-	S08-4FUW-050
(***) *** M8	4-pole	right angle	PUR	10 m	4	OPEN CABLE	-	S08-4FUW-100
(***) *** M8	4-pole	straight	PVC	2 m	4	OPEN CABLE	-	S08-4FVG-020
(***) *** M8	4-pole	straight	PVC	5 m	4	OPEN CABLE	-	S08-4FVG-050
(***) *** M8	4-pole	straight	PVC	10 m	4	OPEN CABLE	-	S08-4FVG-100
(***) *** M8	4-pole	right angle	PVC	2 m	4	OPEN CABLE	-	S08-4FVW-020
(***) *** M8	4-pole	right angle	PVC	5 m	4	OPEN CABLE	-	S08-4FVW-050
(* *) * M8	4-pole	right angle	PVC	10 m	4	OPEN CABLE	-	S08-4FVW-100
(***) *** M8	4-pole	straight	PUR	2 m	-	(●) ●) ● M12	4	S08-4FUG-020-12MG
(***) *** M8	4-pole	right angle	PUR	2 m	-	(***) ***) M8	4	S08-4FUW-020-08MG
(***) *** M8	4-pole	straight	PVC	2 m	-	••• M12	4	S08-4FVG-020-12MG
(* * * M8	4-pole	right angle	PVC	2 m	-	(***) •**) M8	4	S08-4FVW-020-08MG

www.contrinex.com/collections/connectivity

 CONNECTIVITY

INDUCTIVE & PHOTOELECTRIC CABLES Group **G**

M12 4-PIN



open ended wire



connecting cables

CONNECTOR	PINS	CONFIG.	CABLE MATERIAL	CABLE LENGTH	WIRE	CABLE CONNECTION END	PINS	PART REFERENCE
(●) ●) M12	4-pole	straight	PUR	2 m	4	OPEN CABLE	-	S12-4FUG-020
••• M12	4-pole	straight	PUR	5 m	4	OPEN CABLE	-	S12-4FUG-050
••• M12	4-pole	straight	PUR	10 m	4	OPEN CABLE	-	S12-4FUG-100
(●) ● M12	4-pole	straight	PUR	15 m	4	OPEN CABLE	-	S12-4FUG-150
(***) *** M12	4-pole	straight	PUR	20 m	4	OPEN CABLE	-	S12-4FUG-200
(***) *** M12	4-pole	straight	PUR	25 m	4	OPEN CABLE	-	S12-4FUG-250
(***) *** M12	4-pole	right angle	PUR	2 m	4	OPEN CABLE	-	S12-4FUW-020
(***) *** M12	4-pole	right angle	PUR	5 m	4	OPEN CABLE	-	S12-4FUW-050
(***) *** M12	4-pole	right angle	PUR	10 m	4	OPEN CABLE	-	S12-4FUW-100
(***) *** M12	4-pole	right angle	PUR	15 m	4	OPEN CABLE	-	S12-4FUW-150
(***) *** M12	4-pole	right angle	PUR	20 m	4	OPEN CABLE	-	S12-4FUW-200
(***) M12	4-pole	right angle	PUR	25 m	4	OPEN CABLE	-	S12-4FUW-250
M12	4-pole	straight	PVC	2 m	4	OPEN CABLE	-	S12-4FVG-020
(***) *** M12	4-pole	straight	PVC	5 m	4	OPEN CABLE	-	S12-4FVG-050
(***) *** M12	4-pole	straight	PVC	10 m	4	OPEN CABLE	-	S12-4FVG-100
(***) *** M12	4-pole	right angle	PVC	2 m	4	OPEN CABLE	-	S12-4FVW-020
(***) *** M12	4-pole	right angle	PVC	5 m	4	OPEN CABLE	-	S12-4FVW-050
(***) *** M12	4-pole	right angle	PVC	10 m	4	OPEN CABLE	-	S12-4FVW-100
M12	4-pole	straight	PUR	0.6 m	-	M12	4	S12-4FUG-006-12MG
(***) *** M12	4-pole	straight	PUR	2 m	-	M12	4	S12-4FUG-020-12MG
(***) *** M12	4-pole	straight	PUR	5 m	-	M12	4	S12-4FUG-050-12MG
(***) *** M12	4-pole	straight	PVC	0.6 m	-	M12	4	S12-4FVG-006-12MG
(***) *** M12	4-pole	straight	PVC	2 m	-	M12	4	S12-4FVG-020-12MG
••• M12	4-pole	straight	PVC	5 m	-	••• M12	4	S12-4FVG-050-12MG

Detailed data sheets for these products can be found on the Contrinex website:

INDUCTIVE & PHOTOELECTRIC CABLES Group ^(C)

FIELD ATTACHABLE CONNECTORS

CONNECTOR	PINS	CONFIG.	OUTER Ø	WIRE Ø	PART REFERENCE
• M12	3-pole	straight	3.0–5.0	0.08–0.38	S12-3FNG-000-NNT1
• M12	3-pole	straight	3.0–5.0	0.08–0.38	S12-3MNG-000-NNT1
M12	4-pole	straight	3.0–5.0	0.08–0.38	S12-4FNG-000-NNT1
M12	4-pole	straight	4.0-8.0	0.14–0.50	S12-4FNG-000-NNT2
M12	4-pole	straight	5.5–8.0	0.50–1.00	S12-4FNG-000-NNT3
M12	4-pole	right angle	3.0–5.0	0.08–0.38	S12-4FNW-000-NNT1
M12	4-pole	straight	3.0–5.0	0.08–0.38	S12-4MNG-000-NNT1
M12	4-pole	straight	4.0-8.0	0.14–0.50	S12-4MNG-000-NNT2
••• M12	4-pole	straight	5.5–8.0	0.50-1.00	S12-4MNG-000-NNT3
••• M12	4-pole	right angle	3.0–5.0	0.08–0.38	S12-4MNW-000-NNT1



VIEW CONNECTIVITY DATASHEETS

CONNECTIVITY

DISTRIBUTION BOXES

CONNECTOR	PINS	NUMBER OF CONNECTIONS	CONNECTION TYPE	PART REFERENCE
(****) **** M12	5-pole	Universal – Hood	No cable	V12-50PE-000-NNN
••• ••• ••• M12	5-pole	4 Plug Distribution box	Connector M23	V12-54MG-023-NYN
M12	5-pole	4 Plug Distribution box	No cable (hood needed)	V12-54PB-000-NYN
M12	5-pole	4 Plug Distribution box	PUR cable 2 m	V12-54PD-020-UYN
M12	5-pole	4 Plug Distribution box	PUR cable 5 m	V12-54PD-050-UYN
M12	5-pole	4 Plug Distribution box	PUR cable 10 m	V12-54PD-100-UYN
M12	5-pole	4 Plug Distribution box + Hood	PUR cable 5 m	V12-54PY-050-UYN
M12	5-pole	8 Plug Metal Distribution box	PUR cable 5 m	V12-58MD-050-UYN
M12	5-pole	8 Plug Metal Distribution box	PUR cable 10 m	V12-58MD-100-UYN
M12	5-pole	8 Plug Metal Distribution box	Connector M23	V12-58MG-023-NYN
M12	5-pole	8 Plug Distribution box	No cable (hood needed)	V12-58PB-000-NYN
M12	5-pole	8 Plug Distribution box	PUR cable 2 m	V12-58PD-020-UYN
M12	5-pole	8 Plug Distribution box	PUR cable 5 m	V12-58PD-050-UYN
M12	5-pole	8 Plug Distribution box	PUR cable 10 m	V12-58PD-100-UYN
M12	5-pole	8 Plug Distribution box + Hood	PUR cable 2 m	V12-58PY-020-UYN
M12	5-pole	8 Plug Distribution box + Hood	PUR cable 5 m	V12-58PY-050-UYN



INDUCTIVE & PHOTOELECTRIC CABLES Group 10

M12 AC/DC 3-PIN



CONNECTOR	PINS	CONFIG.	CABLE MATERIAL	CABLE LENGTH	WIRE	CABLE CONNECTION END	PINS	PART REFERENCE
UNF 1/2 "	3	straight	PUR	2 m	3	OPEN CABLE	-	S13-3FUG-020
UNF 1/2"	3	straight	PUR	5 m	3	OPEN CABLE	-	S13-3FUG-050
UNF 1/2"	3	right angle	PUR	2 m	3	OPEN CABLE	-	S13-3FUW-020
UNF 1/2"	3	right angle	PUR	5 m	3	OPEN CABLE	-	S13-3FUW-050

VIEW ACCESSORIES DATASHEETS

www.contrinex.com/collections/accessories

UNIVERSAL MOUNTING BRACKETS Group ()

UNIVERSAL MOUNTING BRACKETS

	HOUSING SIZE COMPATIBILITY	ТҮРЕ	PART REFERENCE
	Ø 3	without limit stop	ASU-0001-030
	Ø 4	without limit stop	ASU-0001-040
60	Ø 5	without limit stop	ASU-0001-050
1	Ø 6.5	without limit stop	ASU-0001-065
	Ø 8	without limit stop	ASU-0001-080
	Ø 8	with limit stop	ASU-0002-080
	Ø 12 mm	without limit stop	ASU-0001-120
Sp	Ø 12 mm	with limit stop	ASU-0002-120
	Ø 18 mm	without limit stop	ASU-0001-180
	Ø 18 mm	with limit stop	ASU-0002-180

MECHANICAL STOPS

	INNER Ø	OUTER Ø	PLUNGER TYPE	MAX. FORCE ON HOUSING	MAX. FORCE ON PLUNGER	PART REFERENCE
44	M5 × 0.5	M8 × 1	Flat ¹	8,000 N	2,000 N	AMS-0001-M08
TT	M5 × 0.5	M8 × 1	Spherical ²	8,000 N	2,000 N	AMS-0002-M08
44	M8 × 1	M12 × 1	Flat ¹	15,000 N	2,000 N	AMS-0001-M12
TT	M8 × 1	M12 × 1	Spherical ²	15,000 N	2,000 N	AMS-0002-M12

Material: Steel XC 48, black Max. tightening torque: 30 Nm (M8), 50 Nm (M12)

PHOTOELECTRIC MOUNTING BRACKETS Group ()

	HOUSING SIZE COMPATIBILITY	BRACKET MATERIAL	PART REFERENCE
	C23PA series	Stainless steel V2A	LXW-C23PA-000
The second se	C23PA series	Stainless steel V2A	LXW-C23PA-001
	C23PA series	Stainless steel V2A	LXW-C23PA-002
	C23PA series	Stainless steel V2A	LXW-C23PA-003
Ĵ	DGI series MGI series	Stainless steel V2A	LXW-DGMGA-000

VIEW ACCESSORIES DATASHEETS

www.contrinex.com/collections/accessories



	HOUSING SIZE COMPATIBILITY	BRACKET MATERIAL	PART REFERENCE
4	M18PA series	ABS/PMMA	LHW-M18PA-000
4	M18PA series	ABS/PMMA	LLW-M18PA-000
4	M18PA series	ABS/PMMA	LTW-M18PA-000
Φ	M18PA series	ABS	LXW-M18PA-000
0	M18PA series	Polyamide	LXW-M18PA-001

ACCESSORIES

PHOTOELECTRIC REFLECTORS Group **G**

REFLECTORS

	DIMENSIONS	PART REFERENCE
۲	Ø26 mm	LXR-0000-025
	Ø46 mm	LXR-0000-046
$\begin{tabular}{ c c } \hline \hline$	Ø82 mm	LXR-0000-084
	32 × 20 mm	LXR-0001-032
• ***** •	60 × 20 mm	LXR-0001-062
	Ø26 mm	LXU-0000-025
	Ø82 mm	LXU-0000-084
•	32 × 20 mm	LXU-0001-032
	60 × 41 mm	LXU-0001-064

310 We made these pages with care, but we decline liability for any errors or omissions.

VIEW ACCESSORIES DATASHEETS

www.contrinex.com/collections/accessories



ACCESSORIES

SENSOR TESTER Group (1)



ACCESSORIES REFERENCE KEY

CABLES/CONNECTORS

S12-4FAG-020[-NNLN-12MG]

CONNECTION CABLE	S
CONNECTOR SIZE FEMALE	
M8	08
M12	12
M12 AC/DC	13
M23	23
NUMBER OF POLES	-
3-pole	3
4-pole	4
5-pole	5
8-pole	8
11-pole	В
19-pole	J
CONNECTOR TYPE	
Female (socket)	F
Male (plug)	М
CABLE MATERIAL	-
No cable	Ν
PVC	V
PUR	U
TPE-S	А
CABLE EXIT (FEMALE)	-
Straight	G
Right-angle	W
CABLE LENGTH	-
No cable	000
0.3 m	003
0.6 m	006
1 m	010
1.5 m	015
2 m (standard)	020
5 m	050
10 m	100
15 m	150
20 m	200
25 m	250

G
W

CONNECTOR TYPE	
Male (plug)	М
Female (socket)	F

CONNECTOR SIZE MALE

M8	08
M12	12
M23	23

CONNECTION TYPE	
Standard	Ν
Quick-lock	Q
Cable Ø 3.0–5.0 mm / wire 0.08–0.38 mm²	1
Cable Ø 4.0–8.0 mm / wire 0.14–0.50 mm²	2
Cable Ø 5.5–8.0 mm / wire 0.5–1.0 mm²	3

APPLICATION	
Standard	Ν
Food	L
RFID	R
Field attachable	Т
Safety	S

Ν
W

LED	
Yes, PNP	Y
Yes, NPN	Z
No	N

VIEW CONNECTIVITY DATASHEETS

www.contrinex.com/collections/connectivity

DISTRIBUTION BOXES AND T-CONNECTORS

DISTRIBUTION BOX OR T-CONNECTOR	V
CONNECTIONS	
Accessory	00
M8	08
M12	12
POLE NUMBER OF CONNECTIO	NS
3-pole	3
4-pole	4
5-pole	5
8-pole	8
NUMBER OF CONNECTIONS	
Hood for all types	0
2 connections	т
4 connections	4
6 connections	6
8 connections	8
10 connections	1
MATERIAL	
Plastic	Р
Metal	М
ТҮРЕ	
Distribution box with cable / T-connector	D
Distribution box for straight connection	G
Distribution box for right-angle connection	W
Base element without hood	В
Hood with cable	Н
Hood without cable	E

Base element + hood with cable

V12-58PD-050-UYN (-###)									
V							SPECIAL EXECUTIONS		
							TECHNOLOGY		
							Standard (passive distribution box)	Ν	
00							Wiring according diagram no.	#	
08									
12							LED		
~							Yes	Y	
S							No	Ν	
3									
4				L			CABLE MATERIAL		
5									
8							No cable	N	
	-						PVC	V	

PUR

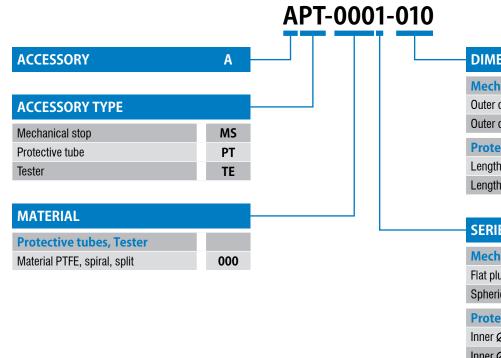
CONNECTION	
No cable	000
Cable 0.3 m	003
Cable 2 m	020
Cable 5 m	050
Cable 10 m	100
Connector M12	012
Connector M23	023

U

Υ

ACCESSORIES REFERENCE KEY

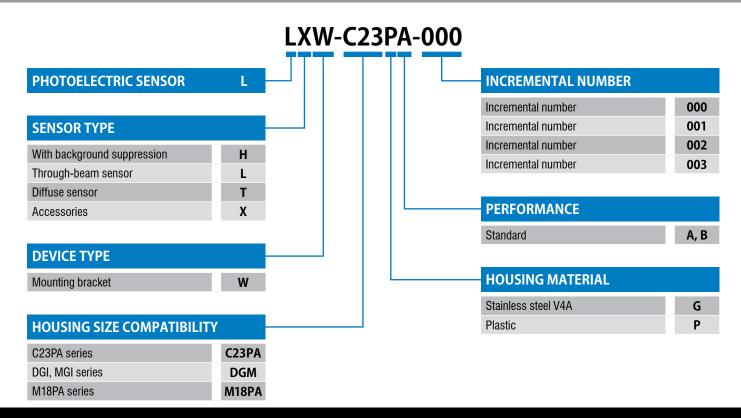
MISCELLANEOUS



DIMENSIONS					
Mechanical stops					
Outer diameter M08=M8 \times 1 thread	M08				
Outer diameter M12=M12 \times 1 thread	M12				
Protective tubes					
Length in dm (1 m)	010				
Length in dm (10 m)	100				

SERIES	
Mechanical stops	
Flat plunger	1
Spheric plunger	2
Protective tubes	
Inner Ø3.5 mm / Outer Ø6.0 mm	0
Inner Ø 6.5 mm / Outer Ø 10.0 mm	1
Inner Ø 13.0 mm / Outer Ø 17.5 mm	2
Inner Ø 19.0 mm / Outer Ø 23.5 mm	3
Tester	
Base	0

PHOTOELECTRIC MOUNTING BRACKETS AND SPECIAL MOUNTINGS

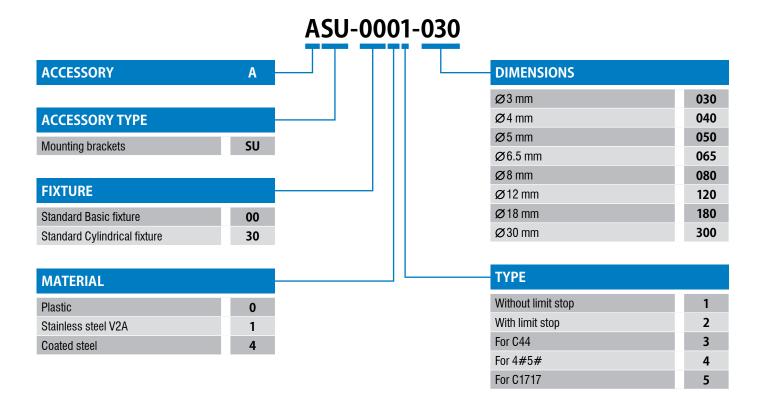


VIEW ACCESSORIES DATASHEETS

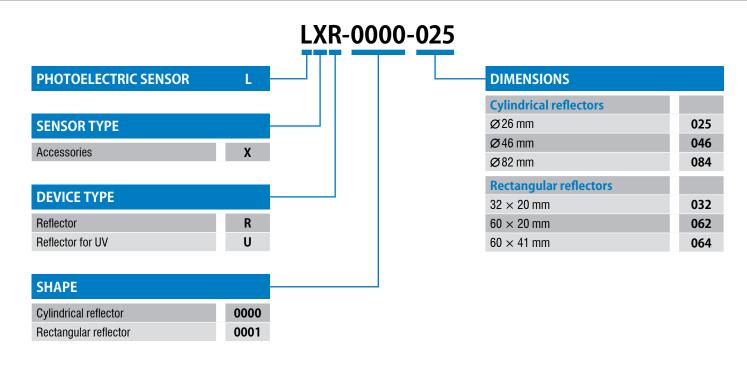
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MOUNTING BRACKETS



PHOTOELECTRIC REFLECTORS





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