Sensor Catalog 2013 - 2014



NEW

Miniature inductive sensors (Ø3 & M5) for harsh or pressurized environments

Weld-immune, full-metal inductive sensors

Cubic inductive sensors with rotatable active face, IP 68 & IP 69K

Full-metal inductive sensors with long operating distance (15 mm in M12 housing)

Ecolab-approved photoelectric sensors with Plexiglas® window (40 x 50 mm)

Expanded capacitive sensor range copes with sticky and viscous materials

Food-approved PVC cables and connectors, IP 69K





INTRODUCTION

AT A GLANCE

- Technology leading manufacturer of inductive and photoelectric sensors as well as Safety and RFID systems
- ✓ World market leader for miniature sensors. sensors with long operating distance and devices for particularly demanding operating conditions
- Represented in over 60 countries worldwide, headquarters in Switzerland
- Production sites in Switzerland, Hungary (since) 1995), China (since 2003) and Brazil (2009)
- 14 own subsidiaries in all major markets
- ✓ More than 500 employees worldwide



Contrinex Headquarters, Switzerland

PETER HEIMLICHER HANDS OVER **CEO ROLE TO ANNETTE HEIMLICHER**

On 1st September 2012 Peter Heimlicher, the founder and President of the Contrinex Group, handed over as CEO to his daughter and fellow member of the Management Board, Annette Heimlicher.

As Director of Corporate Development, Annette Heimlicher has overseen much of the Group's recent expansion, particularly in India and Brazil, and is on the Board of several Contrinex subsidiaries. Annette Heimlicher holds a post-graduate degree in economics from the London School of Economics and formerly held the post of Associate Director at the World Economic Forum in Geneva.

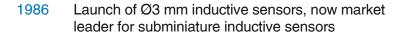
In her new role, Mrs Heimlicher will continue to pursue a growth strategy for the Group.



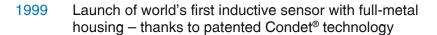
40 YEARS OF INNOVATION

1979	Sensor business starts with self-contained submini-
	ature inductive sensors: Ø4 mm (instead of M8 before)

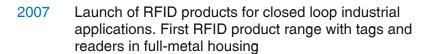
1982	Launch of inductive sensor with patented Condist®
	technology - market leadership with operating dis-
	tances 3x standard







2005 Integration of Contrinex's excellent performance for inductive sensors in CMOS-ASIC (Application-Specific Integrated Circuit), a proprietary development



2008 Launch of Safetinex®, the industrial safety product range

The smart sensor is born. Launch of next generation 2009 ASIC, a "system on a chip", including IO-Link interface

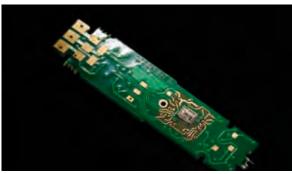
2011 Development starts on Contrinex's first ASIC for photoelectric sensors

2012 **Contrinex celebrates 40 years:**

- More than 500 employees
- Represented in 60 countries
- 8000 products
- 4 production sites
- · 14 own subsidiaries in all major markets



Early inductive sensor produced for own use in 1973 (special version for extreme conditions)



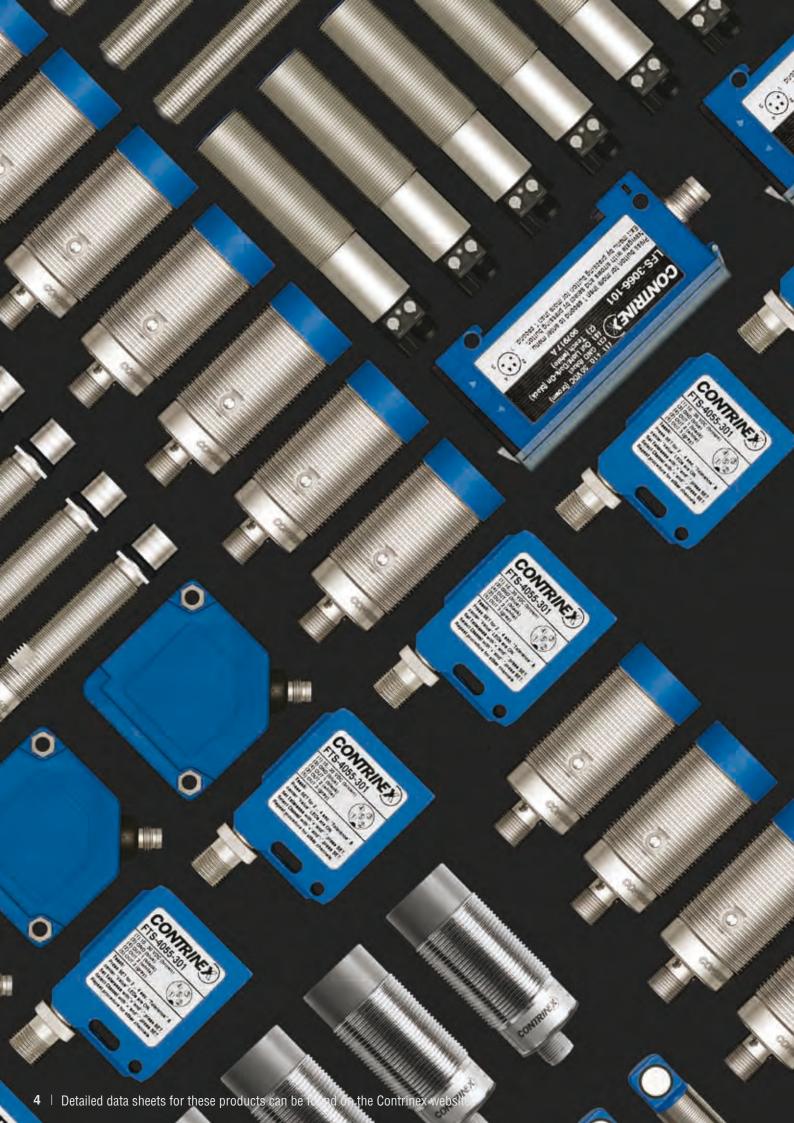
Next generation ASIC

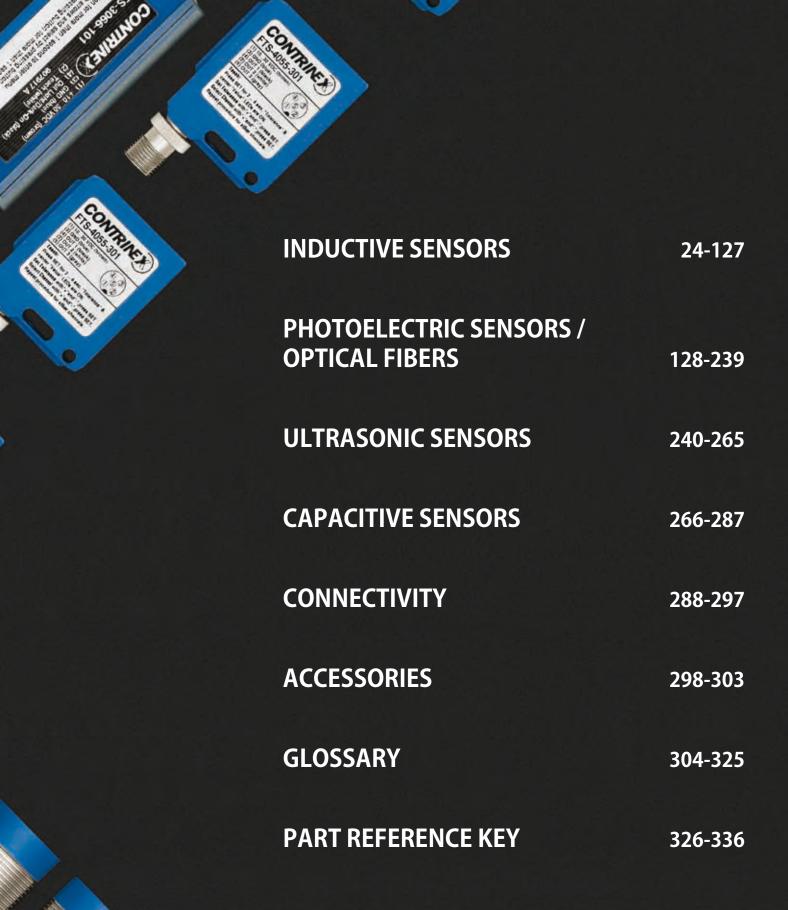


Safety product range



Subminiature photoelectric sensor





SENSOR SELECTOR

	INDUCTIVE	PHOTOELECTRIC
SENSING DISTANCE	1 mm - 40 mm	1 mm - 50,000 mm
TARGET MATERIAL	Metal only	Any material that reflects light
SENSING SPEED	0.02 - 10 kHz	1 - 5 kHz
ENVIRONMENT	Versions for normal or harsh and dirty environments, with protection class up to IP 68 / IP 69K	For clean environments without dust or steam, with protection class up to IP 67
PROGRAM OVERVIEW	p. 14 - 17	p. 130 - 133
TASKS	 ✓ Presence detection of metal objects ✓ Position control of all kinds of metal targets ✓ Counting tasks ✓ Distance control on end positions ✓ Quality control 	 ✓ Sensing of light reflective objects ✓ Position control of cartons and other objects on conveyors ✓ Detection of small objects over large distances

ULTRASONIC	CAPACITIVE	
10 mm - 6000 mm	1 mm - 40 mm	
Any material that reflects sounds	Metals, non-metals, liquids, powders	
1 - 10 Hz	15 - 500 Hz	
For industrial environments, with protection class up to IP 67	For normal or demanding environments, with protection class up to IP 67	
p. 242 - 243	p. 268 - 269	
 ✓ Detection of all objects that reflect ultrasound ✓ Monitoring of winding and unwinding processes ✓ Liquid level control ✓ Loop tension control ✓ Position feedback ✓ Distance or height control 	 ✓ Level control of fluids, bulk materials and powder ✓ Presence detection of almost all materials ✓ Counting tasks for non-metallic materials ✓ Detection through non-metallic container walls 	

APPLICATIONS

AUTOMOTIVE MANUFACTURING INDUSTRY

Today, sensors of all types are common in automotive factories around the globe. Highly automated plants with demanding conformity requirements rely heavily on sensor technology to maintain world-class quality standards, particularly where harsh processes such as welding, metal finishing and high-temperature coating are required.

Manufacturing engineers working for automotive manufacturers and for first- and second-tier suppliers expect robust, reliable sensors that deliver accurate, repeatable results with minimal downtime.



See our website or scan this QR code:



Recommended product ranges:

Inductive - Full Inox - Extreme

Inductive - Classics - Basic

Inductive - Full Inox - Weld-Immune

Inductive - Extra Distance - Basic





PACKAGING MACHINES

On the journey from manufacturer to consumer, packaging protects all types of product, including foods, pharmaceuticals, white goods and cosmetics. Although packaging helps bring competitive products to target markets in the best possible condition. costs are often significant, and automation helps minimize the impact.

The packaging industry is highly innovative, using sensors to identify, select and position packaging of all types. Reducing manufacturing costs and ensuring environmental sustainability are key objectives, and sensors for packaging machines are chosen to maximize efficiency while ensuring reliable, repeatable operation.

Typical application

See our website or scan this QR code:



Recommended product ranges:

Photoelectric - Cubic small

Photoelectric - Cylindrical small

Photoelectric - Cubic miniature





MACHINE TOOLS

Machine tools impose harsh operating conditions on the sensors needed to control cutting, forming and joining processes that run continuously in many metalworking factories. Common hazards include cutting fluid, cooling sprays, swarf particles and electromagnetic interference, making sensor selection particularly difficult where world-class performance is essential.

Size is another key factor, as modern tool-holders allow only limited space for the sensors needed to identify and position individual tools during rapid tool-changing. The right sensors contribute to efficient production, without interruption or error.



Typical application

See our website or scan this QR code:



Recommended product ranges:

Inductive - Classics - Miniature Photoelectric - Cylindrical subminiature Inductive - Extra Distance - Basic



LOGISTICS

Whatever the logistics system, choosing the right sensors is crucial to achieving the six "rights" of logistics: ensuring that the right goods, in the right quantities, in the right condition, are delivered to the right place, at the right time, for the right cost.

From large-scale containerized shipping to everyday internal logistics, engineers select the right sensor technology for each container, conveyor, palletizer or robot, ensuring reliable, repeatable detection and identification, together with troublefree operation.



Typical application

See our website or scan this QR code:



Recommended product ranges:

Inductive - Extra Distance - Basic Photoelectric - Cubic small Inductive - Classics - Basic Photoelectric - Cylindrical small



APPLICATIONS

TEXTILE

Machinery manufacturers supplying the textile, leather and clothing industries rely on sensors for efficiency, reliability and precision. World-class accuracy is essential for production of technical textiles and for making the carbon or chemical fibers used in modern, innovative products, often in highly automated factories.

The high-speed machinery used by textile manufacturers must operate continuously and safely, relying on top-quality sensors for all aspects of access and control. The environmental challenges include industrial cleaning routines that test every sensor to the limit of its capability.



Typical application

See our website or scan this QR code:



Recommended product ranges:

Inductive - Classics - Basic Inductive - Extra Distance - Basic Photoelectric - Cylindrical small



FILLING MACHINES

Filling machines are widespread in many industries, including solids handling, chemical, food, beverage and pharmaceutical, often operating continuously around the clock. Industrial sensors detect containers, lids, labels and caps, measure fill levels and more, and play a vital role in keeping automated filling equipment running reliably, accurately and with minimal downtime.

When handling bulk solids or aggressive chemicals, or working in environments that may operate harsh clean-in-place routines, choosing robust, high-quality sensors is essential to maximize operational efficiency and minimize total cost of ownership.



See our website or scan this QR code:



Recommended product ranges:

Photoelectric - Cubic small Capacitive - Cylindrical - Basic Photoelectric - Cylindrical small





GREEN ENERGY AND ENVIRONMENT

The Green Economy relies heavily on technology for its continued advancement, and sensors are a major component of any eco-friendly strategy. Environmental initiatives include wind-, wave- and solar-power generation, industrial and domestic recycling, energy management and development of alternative fuels.

To deliver the green agenda, all of these sectors utilize sensors extensively for reliable detection and identification of materials, accurate measurement of operational parameters and consistent control of processes.



Typical application

See our website or scan this QR code:



Recommended product ranges:

Inductive - Full Inox - Washdown Inductive - Classics - Basic

Inductive - Extra Distance - Basic



MOBILE EQUIPMENT

Repairing and servicing equipment on site can be difficult and costly at best, and sometimes impossible. In these circumstances, robust, highly reliable sensors are vital for continuous operation in environments that may be challenging in the extreme. Exposure to dirt and dust, impact, vibration, seawater, corrosive chemicals and extremes of temperature and pressure are all part of a regular day's work.

Manufacturers of mobile and portable equipment, including forklifts, agricultural machines, construction plant, aircraft, vehicles and ships, expect exceptional reliability and life-expectancy when selecting fit-and-forget sensors for these demanding applications.



See our website or scan this QR code:



Recommended product ranges:

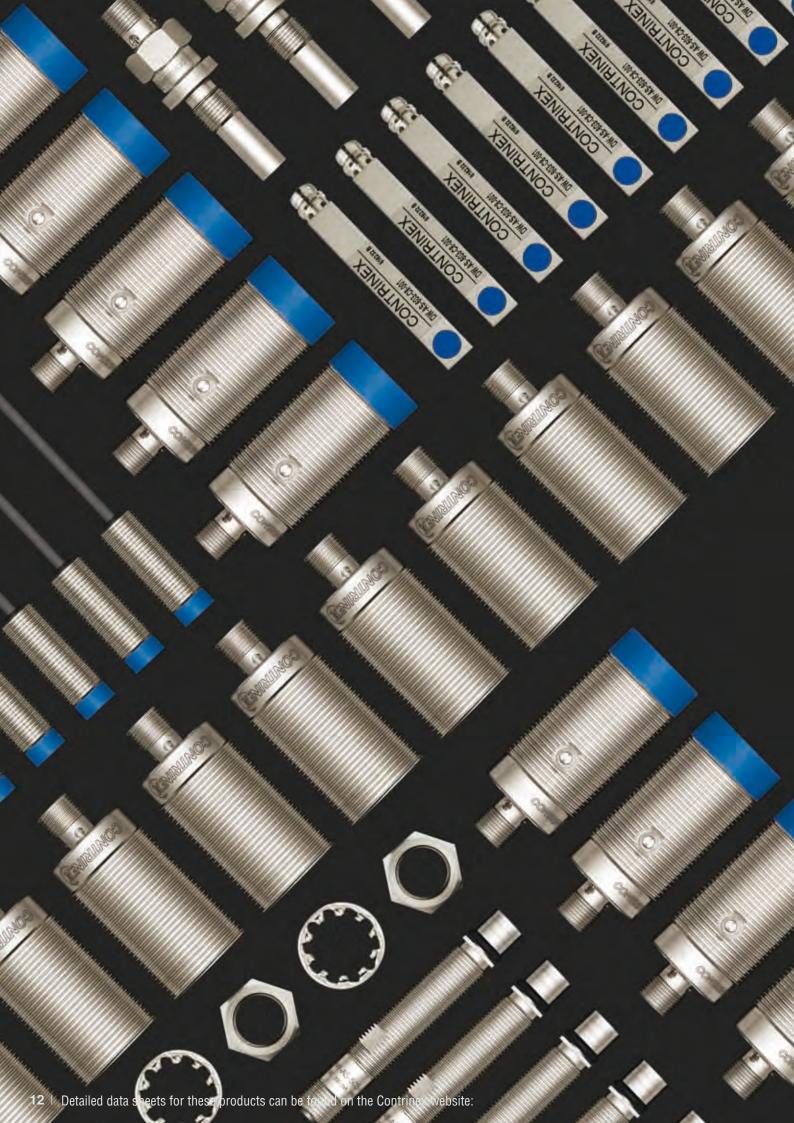
Inductive - Extra Distance - High pressure

Inductive - Full Inox - Extreme

Inductive - Extra Distance - Basic







INDUCTIVE SENSORS

HIGHLIGHTS:

- ✓ Practically indestructible full-metal sensors for extreme conditions
- ✓ Subminiature sensors with full-size functionality
- ✓ Sensors with 4x standard operating distance
- ✓ Outstandingly durable sensors for high cyclic pressures (peak: 1000 bar / 14510 psi)
- ✓ Highly accurate analog output sensors for distance control
- ✓ Full-metal sensors with Factor 1 on steel and aluminum
- ✓ Sensors to withstand high temperatures (up to 230°C / 446°F)
- ✓ Ecolab-approved sensors

NEW:

- ✓ Smallest self-contained miniature inductive sensors on the market
- ✓ M12 full-metal sensors with increased operating distance
- ✓ Flexible cubic sensors with rotatable active face
- ✓ Weld-immune full-metal sensors

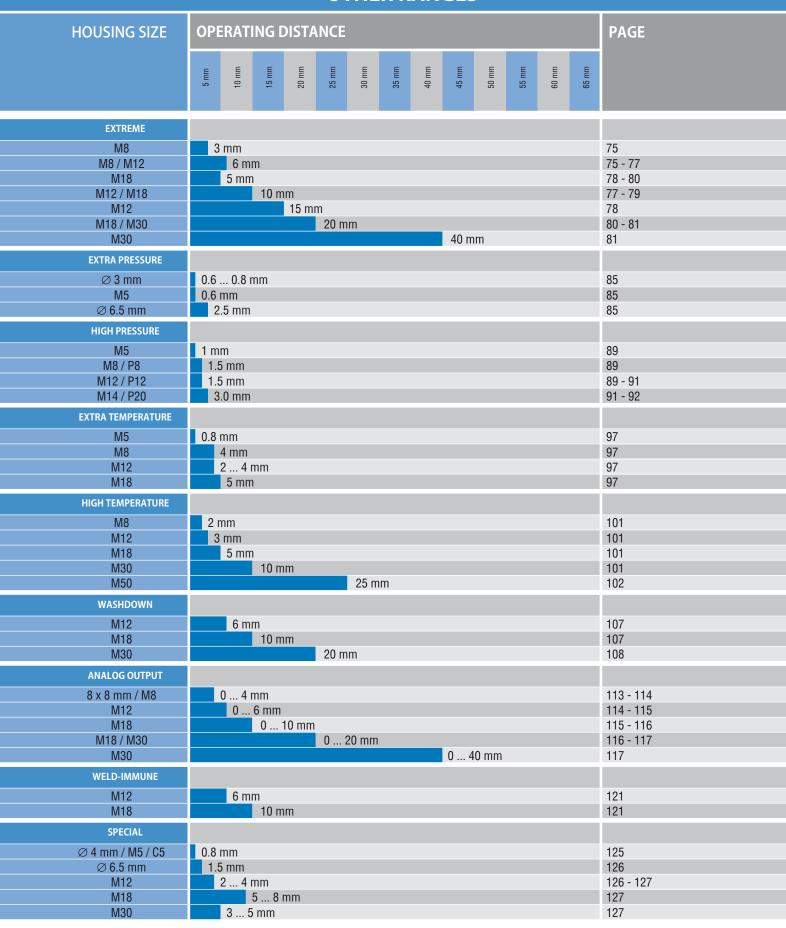
FAMILY	HOUSING SIZE	OPERATING DISTANCE	BASIC	MINIATURE	EXTREME	EXTRA PRESSURE up to 100 bar	HIGH PRESSURE up to 1000 bar peak	
_	Ø 3	0.6 1 mm		p.65-66		p.85		
	M4	0.6 1 mm		p.66-67				
Coning South	Ø 4	0.8 1.5 mm		p.67-68		see online		
	M5	0.8 1.5 mm		p.69-70		p.85		
Ou.	C5	0.8 1.5 mm		p.71				
	Ø 6.5	1.5 2 mm	p.27-31					
က ဝ တ်	M8	1.5 2.5 mm	p.32-37					
× 90 ×	8 x 8	1.5 2 mm	p.41-42					
SS	M12	2 8 mm	p.43-47					
CLASSICS Series 600 I x S _n / 2 x S _r	M18	5 8 mm	p.50-53					
J X X	M30	10 15 mm	p.55-56					
	M50	25 mm						
	40 x 40 mm	15 40 mm	p.59-60					
	40 x 120 mm	15 40 mm	p.60-61					
	Ø 4	2.5 mm		p.69				
EXTRA DISTANCE Series 500 3 x S _n / 4 x S _n	M5	1 2.5 mm		p.70			p.89	
Ž os l	Ø 6.5	2.5 3 mm	p.31			p.85		
500 ×	M8 / P8	1.5 6 mm	p.38-41			see online	p.89	
91S	8 x 8	2 4 mm	p.42					
A L	M12 / P12	1.5 10 mm	p.46-50				p.89-91	
S X	M18	10 20 mm	p.53-55					
	M30	20 40 mm	p.57-59					
	M14 / P20	3 mm					p.91-92	
	Ø 4			coming soon				
Ď	M5			coming soon				
× Circ	Ø 6.5				coming soon			
9 000	M8	3 6 mm			p.75-76			
al h	M12 / P12	1.5 15 mm			p.76-78		p.91	
JL eric	M18	5 20 mm			p.78-80			
F S -	M30	3 40 mm			p.80-81			
FULL INOX Series 700 full-metal housing								

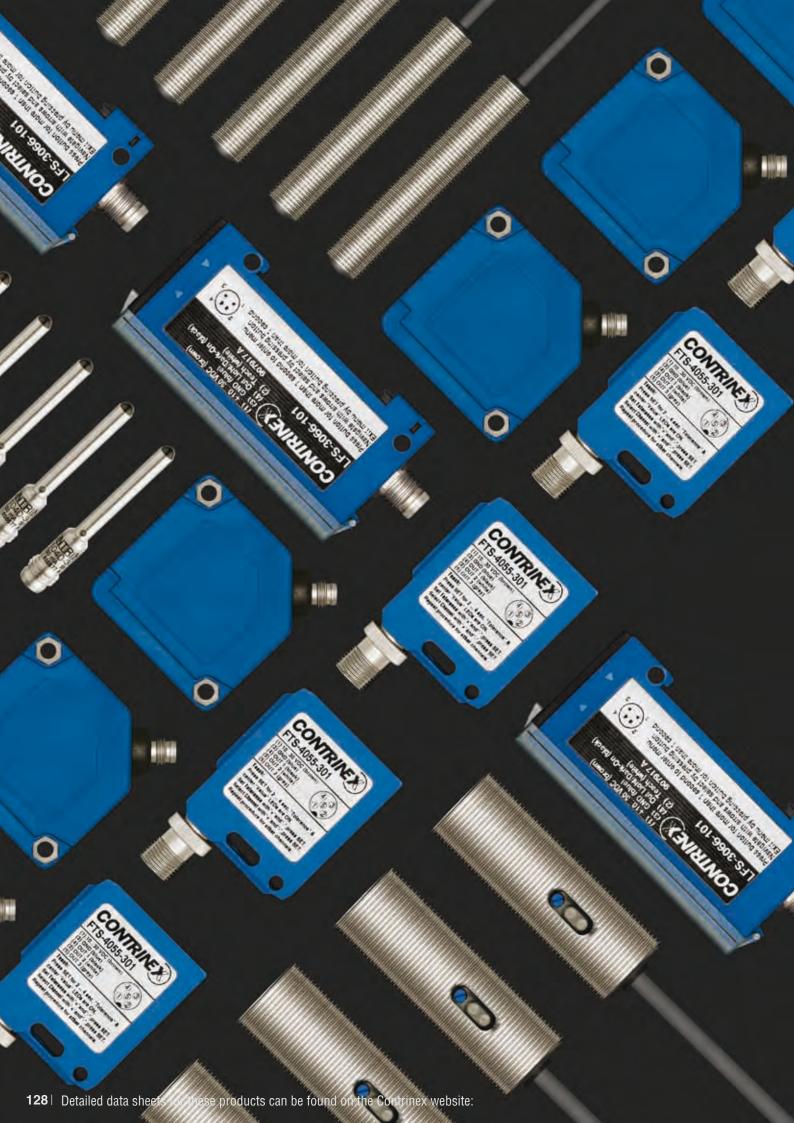
EXTRA TEMPERATURE -40 to 120°C	HIGH TEMPERATURE up to 230°C	WASHDOWN	ANALOG OUTPUT	WELD- IMMUNE	SPECIAL	
					p.125	
p.97					p.125	
					p.125	
					p.126	
p.97	p.101					
p.97	p.101	coming soon		see online	p.126-127	
p.97	p.101			see online	p.127	
	p.101			see online		
	p.102					
				see online		
			p.113-114			
			p.113			
			p.114-115			
			p.116			
			p.116-117			
		p.107		p.121		
		p.107		p.121		
		p.108			p.127	

MINIATURE + BASIC RANGES

					` '									
HOUSING SIZE	OPE	ERATI	ING C	ISTA	NCE									PAGE
	5 mm	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	55 mm	90 mm	65 mm	
Ø 3 mm / M4	0.6 r	mm												65 - 66
	1 mr	n												65 - 67
Ø 4 mm / M5	0.8 r	mm												67 - 69
	1.5	mm												68 - 70
	2.	5 mm												69 - 70
5 x 5 mm	0.8 r	mm												71
	1.5	mm												71
Ø 6.5 mm	1.5	mm												27 - 29
	2 m	nm												29 - 31
	3	mm												31
M8	1.5	mm												31 - 33
	2 m	nm												34 - 37
	2.	5 mm												37
	3	mm												38
	4	4 mm												39 - 40
		6 m	m											40 - 41
8 x 8 mm	1.5	mm												41
	2 m													41 - 42
	3	mm												42
M12	2 m	nm												43
	4	4 mm												44 - 46
		6 m												46 - 47
	100 m	8	mm											47 - 49
			10 mr	n										49 - 50
M18		5 mm												50 - 51
		8	mm											51 - 53
			12 r	nm										53 - 54
					20 mi	m								54 - 55
M30			10 mr											55 - 56
				15 mr										56
					22 r	nm			40 m	m				57 58 - 59
10 10				4.5					40 1111	П				
40 x 40 mm				15 m										59
					20 m	ım	30 m	m						59 59
							JU 1111	111	40 m	m				60
40 x 120 mm				15 mr	m				70 1111					60
40 X 120 IIIIII				וווו כו	11				40 m	m				61
									1 0 1111	11				01

OTHER RANGES







PHOTOELECTRIC SENSORS

HIGHLIGHTS:

- ✓ Smallest self-contained subminiature sensors on the market
- ✓ Excellent suppression of light-colored backgrounds
- ✓ Highly accurate laser sensors
- ✓ Analog output sensors for precise distance control
- ✓ Sensors with short housings and 90° sensing
- ✓ Wide range of fiber-optic amplifiers, including IO-Link
- ✓ Fiber-optic solutions for the most demanding environments
- ✓ Through-beam sensors for longest sensing ranges
- ✓ Excellent color recognition sensors

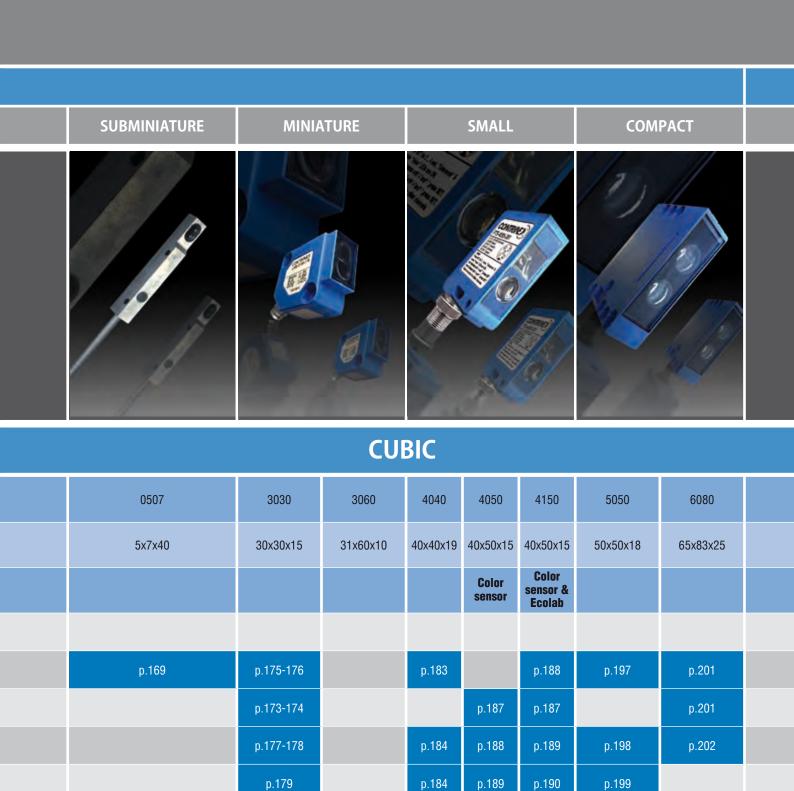
NEW:

- ✓ Ecolab-approved sensors with Plexiglas® window for food industry
- ✓ Color sensors
- ✓ Fiber-optic amplifier with IO-Link

PRODUCT RANGE	SUBMIN	IIATURE	MINIA	ATURE	SM	ALL	
		CYLINI	ORICAL				
SERIES	1040	1050	1120	1120L	1180 / 1180W	1180L	
HOUSING SIZE IN MM	Ø 4	M5	M12	M12	M18	M18	
SPECIAL				Laser		Laser	

HOOSING.	SIZE IIN IVIIVI	∅4	CIVI	IVIIZ	IVI I Z	IVIIO	IVI I O	
SPE	CIAL				Laser		Laser	
FAMILY	SENSING RANGE							
Diffuse	10 2000 mm	p.141-143	p.143-146	p.151-152		p.158-159	p.163	
Background suppression	10 500 mm					p.157-158		
Reflex	0 6000 mm			p.152		p.160-161		
Through-beam	0 50'000 mm		p.146	p.153	p.153	p.161-162	p.164	
Analog output	10 100 mm			p.151				
Color	30 40 mm							
Fiber-optic amplifiers *	0 200 mm							

^{*} Optical amplifiers are presented in the optical fiber section



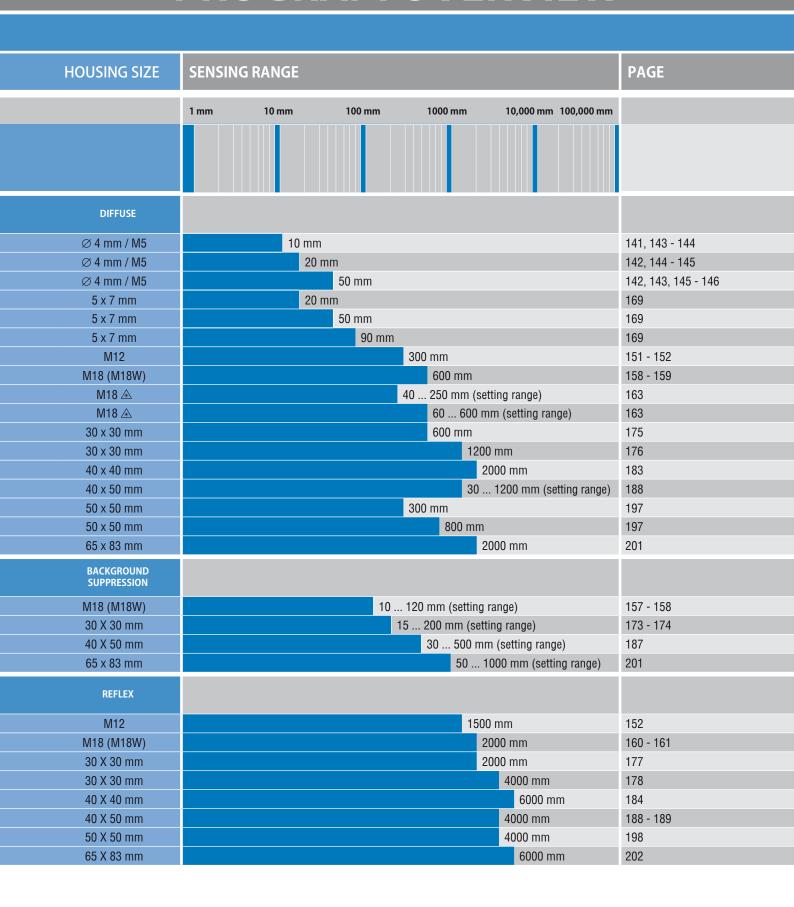
p.193

p.219

p.173

p.211-212

p.215-217

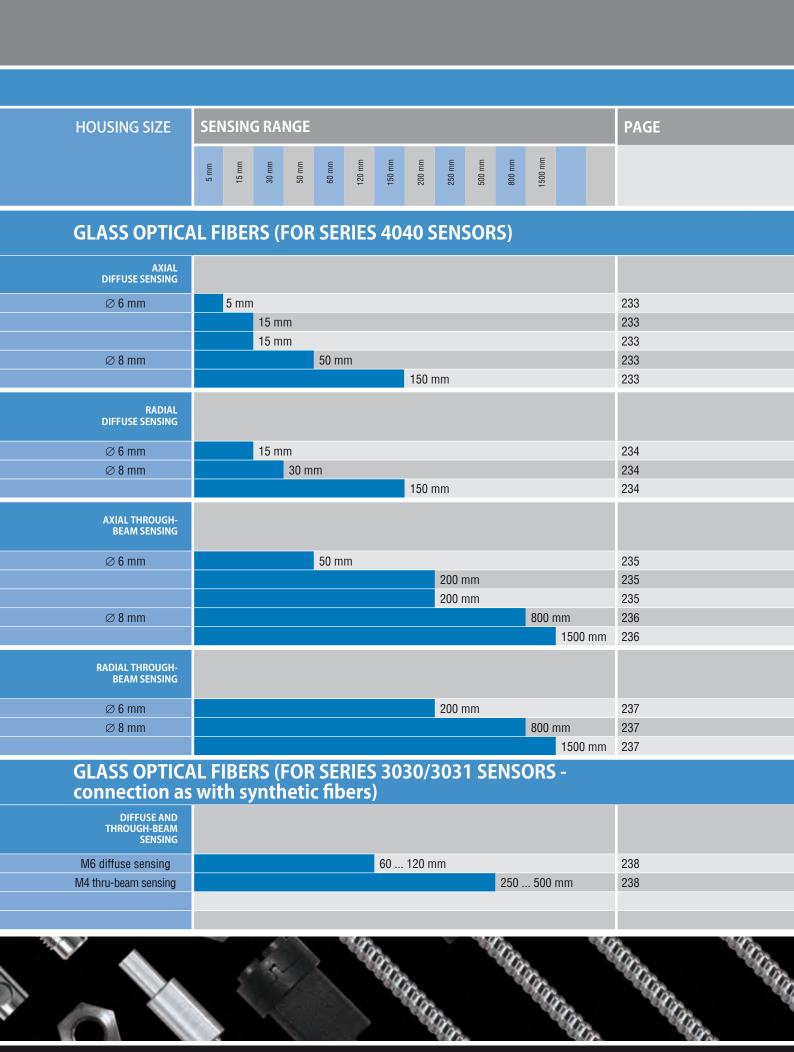


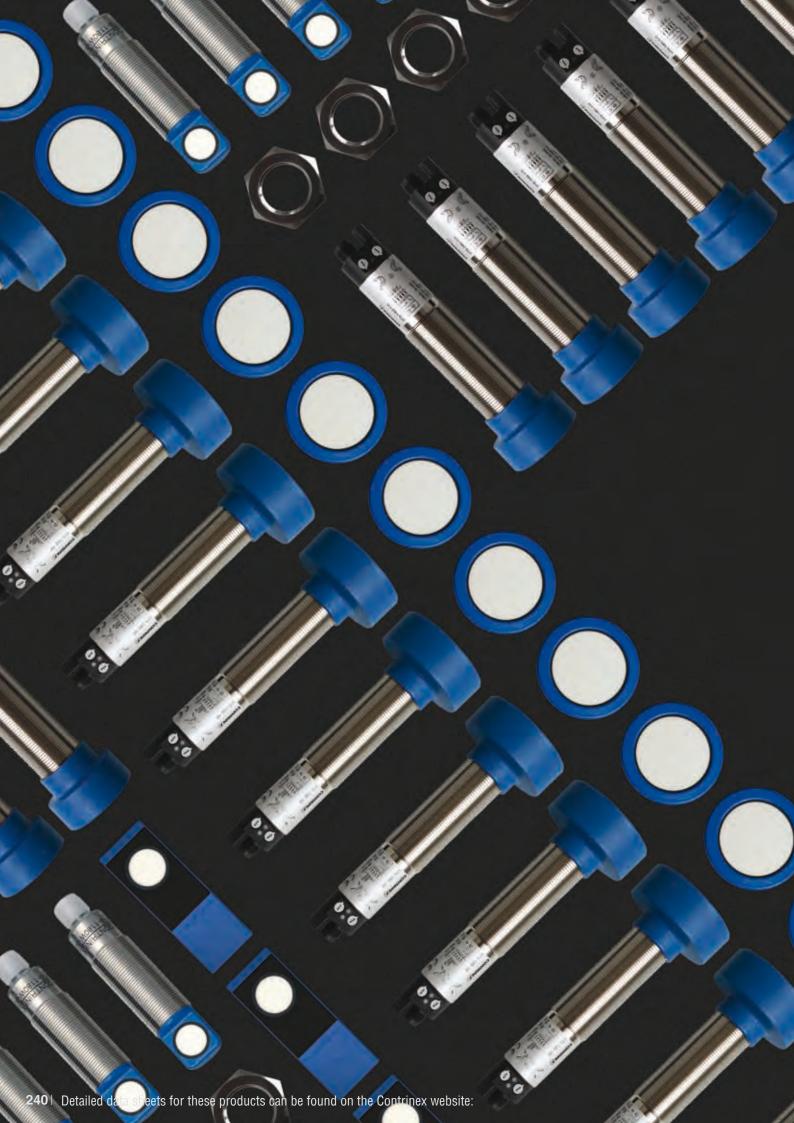


OPTICAL FIBERS	HOUSII SYNTHETIC FIBERS	Diffuse Through-beam Cylindrical light beam Background suppression	No sensing head p.221 p.224	Ø 2.3 p.221	M3 p.221 p.224	Ø 3.2	Ø 4		
OPTICAL FIBERS	SYNTHETIC	Diffuse Through-beam Cylindrical light beam Background suppression	head p.221		p.221		Ø 4		
OPTICAL FIBERS		Through-beam Cylindrical light beam Background suppression		p.221		201			
OPTICAL FIB		Cylindrical light beam Background suppression	p.224		p.224	004			
OPTICAL		Background suppression				p.224			
OPTICA		suppression					p.227		
OPT									
0		Liquid level monitoring							
		Low and high temperatures							
		Multi-beam detection							
	GLASS FIBERS	Diffuse							
	ulhoo i ibliio	Through-beam							
FAMILY	PRODUC	T RANGE	MIN	IIATURE		SMAL	L		
			CUE	BIC					
S	SER	RIES		3030		3060			
AMPLIFIERS	HOUSING S	SIZE IN MM	30 x 3	30 x 15 mm		31 x 60 x 10 mm			
APLI	MAX. DI	STANCE	1	20 mm		200 mm			
A	SET	'UP	Pote	entiometer		Potentiometer			
	FOR USE WITH SY	INTHETIC FIBERS	p.	211-212		p.217			
	FOR USE WITH	GLASS FIBERS	p.	211-212					

SUBMIN	NIATURE		MINIA	ATURE		SM	ALL	
		CYLINI	DRICAL			CU	BIC	
M4	M5	Ø 6	M6	Ø 8	M8	□ 27 x 30	□ 18 x 32	
			p.222-223					
p.225-226			p.226					
	p.227							
					p.229	p.228		
p.230			p.230		μ.ΖΖθ			
							p.229	
		p.233-234	p.238	p.233-234				
p.238		p.235, 237		p.236-237				
			SM	ALL				
			CU	BIC				
30	065	3	066	3	3360	4	040	
31 x 60	x 10 mm	31 x 60	x 10 mm	31 x 60	0 x 10 mm	40 x 40) x 19 mm	
200) mm	200) mm	10	0 mm	15	0 mm	
Tead	ch-in	Teach	/ IO-Link	Poter	ntiometer	Poten	tiometer	
p.21	5-216	p.21	6-217	р	.215			
						р	.219	
	B.			Con	Tim	12	Can	ř

HOUSING SIZE	SEN	ISING	ā RAI	PAGE											
	12 mm	20 mm	45 mm	90 mm	70 mm	80 mm	140 mm	150 mm	200 mm	260 mm	550 mm	700 mm	900 mm	1800 mm	
SYNTHETIC O	PTIC	ALI	FIBE	RS											
DIFFUSE SENSING															
Double fiber (10 m)									60	20	0 mm				221
Ø 2.3 miniature						20	70 mr	n							221
M3 miniature						20	70 mr	n							221
M6 standard										20	0 mm				222-223
M6 flexible								45	5 150	0 mm					222-223
M6 luminous												260 m	ım		222
M6 coaxial									60	20	0 mm				223
THROUGH-BEAM SENSING															
Indiv. fiber (10 m)										200	70	0 mm			224
M3 miniature									60	20	0 mm				224
Ø 3.2 standard 90°									60	20	0 mm				224
M4 standard										200	70	0 mm			225
M4 flexible												150 .	550 ı	mm	225-226
M4 luminous											250	90	0 mm		225
M6 standard 90°												550	1800) mm	226
CYLINDRICAL LIGHT BEAM															
Ø 4 miniature								60	140 m	m					227
M5 miniature								60	140 m	m					227
BACKGROUND SUPPRESSION															
27 x 30 mm flexible 90°		12 mr	n												228
27 x 30 mm flexible		12 mr	n												228
LIQUID LEVEL MONITORING															
M8															229
LOW & HIGH TEMPERATURES															
M4												150 .	550 ו	mm	230
M6								45	5 15	0 mm					230
MULTI-BEAM															
18 x 32 mm								45	5 15	0 mm					229





ULTRASONIC SENSORS

HIGHLIGHTS:

- ✓ Detection independent of target material, color, shape or
- ✓ Ready-to-use cylindrical sensors with integral connector
- ✓ Easy adjustment by either potentiometer or teach-in
- ✓ Dual output sensors, including analog and digital
- ✓ High resolution analog output, current or voltage
- ✓ Normal length or short housings and 90° sensing
- ✓ Reduced blind zone
- ✓ High excess gain insensitive to dirt and ambient noise

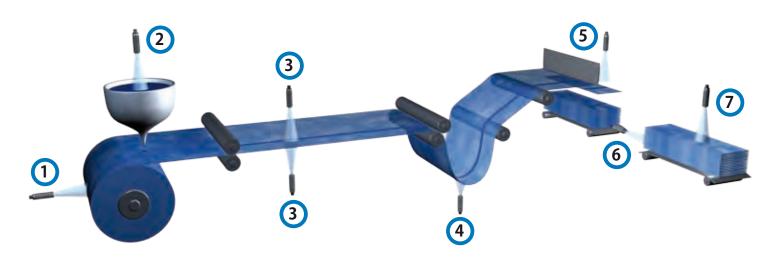
NEW:

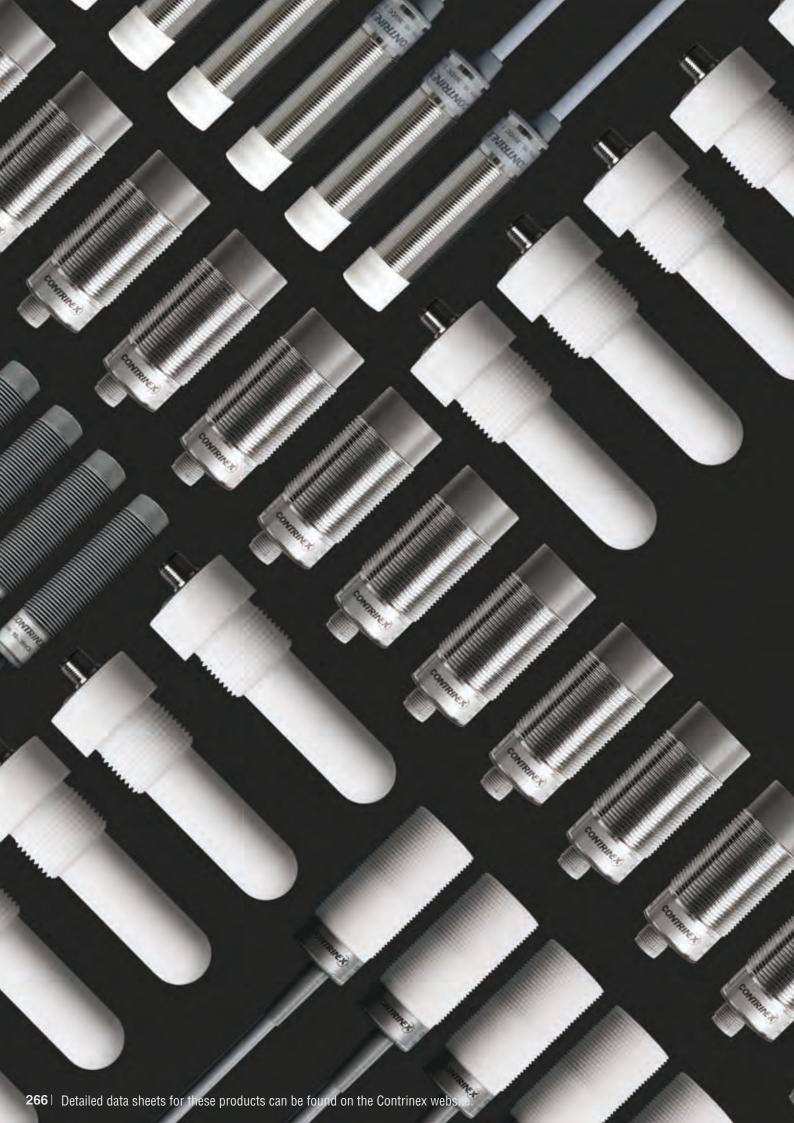
- \checkmark Ø12 sensors for applications with limited space
- ✓ Ø12 sensors with external teach
- ✓ Ø12 sensors with analog output

PRODUC	T RANGE	MINIATURE	SMALL	COMPACT					
HOUSING SIZE	OPERATING DISTANCE								
DIFFUSE (WITH BACKGROUND SUPPRESSION)									
M12	30 400 mm	p. 249							
M18C (short)	30 700 mm		p.254-255						
M18W (90°C)	30 700 mm		p.254-255						
M18	50 300 mm		p.255						
		REFLI	EX						
M18C (short)	0 700 mm		p.253						
M18W (90°C)	0 700 mm		p.253						
DIFFUSE & REFLEX									
M18	150 1000 mm		p.255						
M30	60 6000 mm			p.261					
ANALOG									
M12	30 400 mm	p.249							
M18	50 1000 mm		p.255-256						
M30	60 6000 mm			p.262-263					

HOUSING SIZE	SENSING RANGE									PAGE					
	30 mm	50 / 60 mm	100 mm	150 mm	200 mm	300 mm	400 mm	600 mm	700 mm	1000 mm	1300 mm	1500 mm	3000 mm	6000 mm	
DIFFUSE (WITH BACK- GROUND SUPPRESSION)															
M12		30 400 mm									249				
M18C (short)		30 700 mm									254				
M18W (90°C)		30 700 mm								254-255					
REFLEX															
M18C (short)		0 700 mm									253				
M18W (90°C)										0 7	'00 mn	า			253
DIFFUSE & REFLEX															
M18		50 1000 mm									255				
M30	60 6000 mm								261						
ANALOG															
M12		30 400 mm								249					
M18		50 1000 mm							255-256						
M30												60	6000) mm	262-263

- 1. Wind and unwind monitoring
- 2. Liquid level monitoring
- **3.** Thickness control
- **4.** Loop tension control
- **5.** Detect or count (completeness check)
- **6.** Position feedback
- **7.** Distance / height control





CAPACITIVE SENSORS

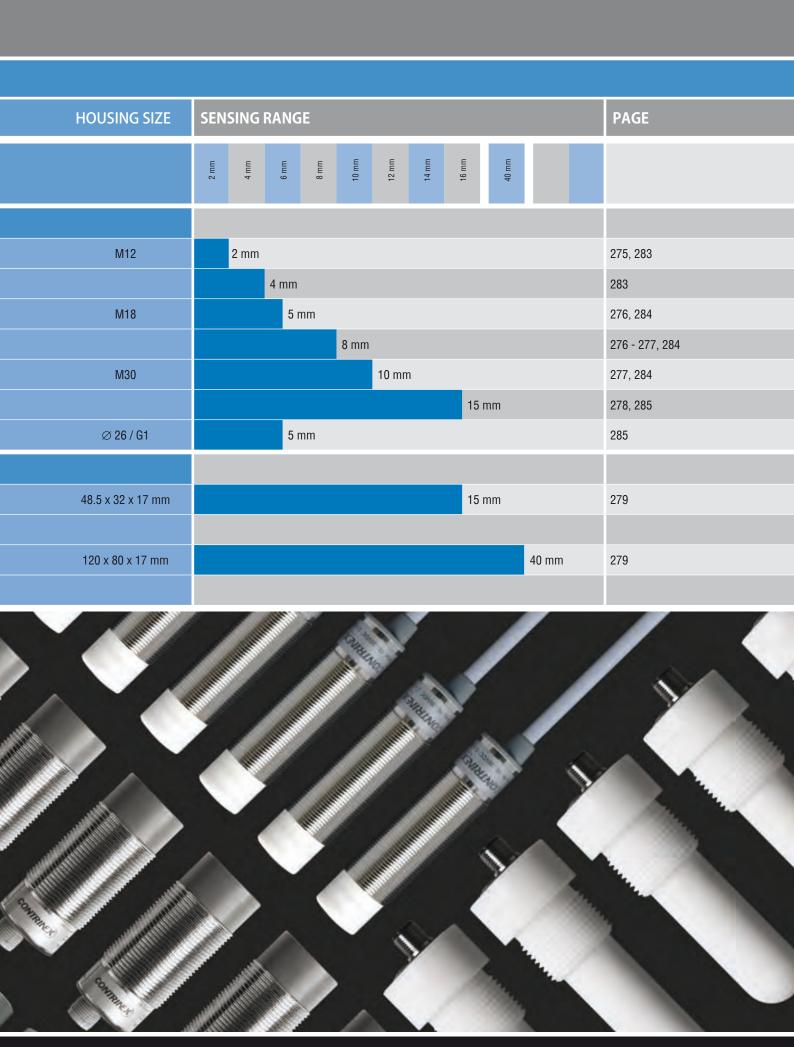
HIGHLIGHTS:

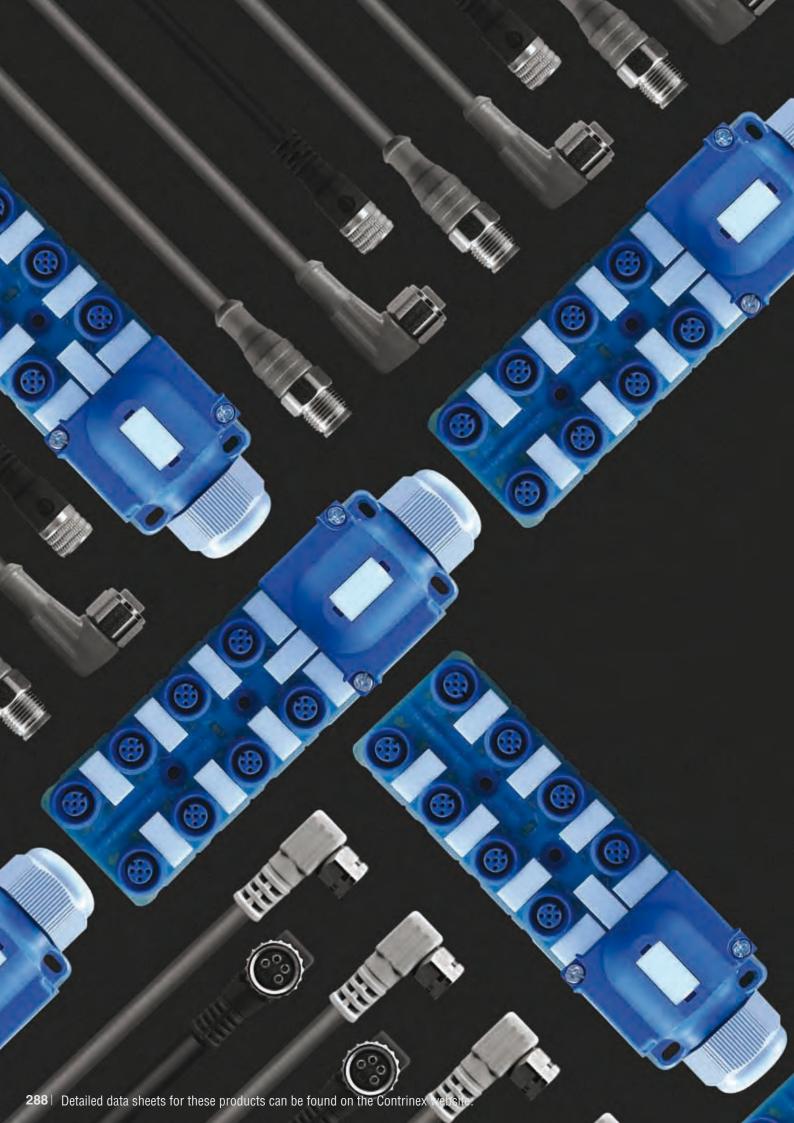
- ✓ Detection of virtually all target materials
- ✓ Easy adjustment with potentiometer and LED
- ✓ Detection through non-metallic pipes and containers
- ✓ Sensors for use in harsh chemical environments

NEW:

- ✓ Reliable level control of sticky and viscous materials
- ✓ Sensors with hygienic, FDA-compliant, PTFE housings

PRODUCT RANGE		BASIC	HIGH PERFORMANCE						
HOUSING SIZE	OPERATING DISTANCE								
CYLINDRICAL									
M12	2 mm	p.275	p.283						
	4 mm		p.283						
M18	5 mm	p.276	p.284						
	8 mm	p.276-277	p.284						
M30	10 mm	p.277	p.284						
	15 mm	p.278	p.285						
Ø 26 / G1	5 mm		p.285						
CUBIC									
48.5 x 32 x 17 mm	15 mm	p.279							
120 x 80 x 17 mm	40 mm	p.279							







CONNECTIVITY

HIGHLIGHTS:

- ✓ Comprehensive cable and connector program
- ✓ IP 69K and Ecolab-tested cables for the food and beverage industry
- ✓ UL-approved cables and connectors
- ✓ Cables with straight or right-angle sockets
- ✓ Distribution boxes
- ✓ Field-attachable connectors
- √ T-connectors
- ✓ User-friendly standard portfolio



CABLES / CONNECTORS DESCRIPTION

SOCKE	ТҮРЕ	PIN ASSIGNMENT TYPE				
	M8 straight socket	3 000 1	M12 4-pole socket			
	M12 straight socket	3 • 1	M8 3-pole socket			
	M8 right angle socket	3 0 0 1	M8 4-pole socket			
		4 () 2	M12 4-pole plug			
	M12 right angle socket	1 • 3	M8 3-pole plug			
PLUG	ТҮРЕ	3	M12 3-pole dual key plug (S13)			
	M8 straight plug					
	M12 straight plug					







ALL OVER THE WORLD

EUROPE

Austria **Belgium***Croatia

Czech Republic

Denmark Estonia

Finland

France* Germany*

Germany*
Great Britain*

Greece Hungary Ireland Italy*

Luxembourg

Netherlands Norway

Poland **Portugal***

Romania

Russian Federation

Slovakia Slovenia Spain Sweden

Switzerland*

Turkey

AFRICA

Morocco South Africa

THE AMERICAS

Argentina
Brazil*
Canada
Chile
Colombia
Mexico*
United States*

Venezuela

. . . .

China* India* Indonesia Japan*

Korea

Malaysia Pakistan

Philippines

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Australia New Zealand

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