FEATURES OF C23 SERIES

DIFFUSE, REFLEX, TRANSPARENT STANDARD, THROUGH-BEAM

- High quality sensors with first-class sensing ranges
- Miniature plastic housing, $20 \times 30 \times 10$ mm
- Red light
- IO-Link interface available on PNP types
- Mutual interference immunity
- Versions available with stability alarm as second output
- Enclosure rating IP67, Ecolab approved
- Versatile mounting brackets for ease of installation

Diffuse operating principle
- Sensing range up to 1,500 mm
- Special version with remote adjustment via IO-Link

Reflex operating principle
- Sensing range up to 8,000 mm
- Red polarized light

Reflex operating principle for transparent object
- Sensing range up to 5,000 mm
- Red polarized light

Through-beam operating principle
- Sensing range up to 30,000 mm
- Mutual interference immunity by setting emitter/receiver pairs via IO-Link

SELECTION OF PRODUCTS

	PART REFERENCE	ART. Nº.	SENSING RANGE	ADJUSTMENT	OUTPUT*	CONNECTION*
DIFFUSE	LTR-C23PA-PMS-403	620-600-106	3 … 1,500 mm	Potentiometer	PNP Light-ON	Connector M8 3-pin
	LTR-C23PA-NMS-403	620-600-113	3 … 1,500 mm	IO-Link	PNP Light-ON	Connector M8 3-pin
REFLEX	LRR-C23PA-NMS-404	620-600-120	20 … 8,000 mm	IO-Link	PNP Dark-ON	Connector M8 3-pin
TRANSPARENT STANDARD	TRR-C23PA-TMS-603	620-600-300	10 … 5,000 mm	Teach or IO-Link	PNP Light-ON + Dark-ON	Connector M8 4-pin
	TRR-C23PA-PMS-603	620-600-308	10 … 5,000 mm	Potentiometer	PNP Light-ON + Dark-ON	Connector M8 4-pin
THROUGH-BEAM	LLR-C23PA-NMS-400	620-600-127	0 … 30,000 mm	–	Emitter	Connector M8 3-pin
	LLR-C23PA-NMS-404	620-600-134	0 … 30,000 mm	IO-Link	PNP Dark-ON	Connector M8 3-pin

*NPN versions, cable versions and other outputs also available

ACCESSORIES

MOUNTING BRACKETS

LXW-C23PA-000	LXW-C23PA-001	LXW-C23PA-002	LXW-C23PA-003
622-000-090	622-000-091	622-000-092	622-000-093

REFLECTORS*

LXR-0000-025	LXR-0000-084	LXR-0001-064	LXR-0001-065	LXR-0001-088	LXR-0002-100
622-000-094	622-000-075	622-000-076	622-000-079	622-000-080	622-000-081
$\varnothing$ 26 mm	$\varnothing$ 82 mm	60×41 mm	60×51 mm	80×85 mm	100×100 mm

*Other reflectors available

REFLECTORS FOR UV
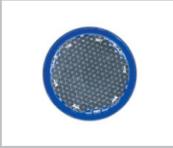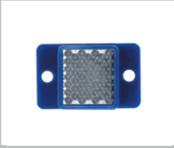
LXU-0000-025	LXU-0000-084	LXU-0001-032	LXU-0001-064
605-000-306	605-000-307	605-000-309	605-000-308
$\varnothing$ 26 mm	$\varnothing$ 82 mm	32×20 mm	60×41 mm

CONNECTING CABLES**

PART REFERENCE	ART. Nº.	SIZE	PINS	CONFIG.	MATERIAL	LENGTH
S08-3FVG-020	623-100-102	M8	3	straight	PVC	2 m
S08-3FVW-020	623-100-101	M8	3	right angle	PVC	2 m
S08-3FUG-020	623-100-106	M8	3	straight	PUR	2 m
S08-3FUW-020	623-100-103	M8	3	right angle	PUR	2 m

**Connector M8 4-pin and other lengths also available

Terms of delivery and right to change design reserved.

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CONTRINEX
SENSORS SAFETY RFID
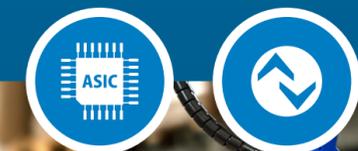
PHOTOELECTRIC SENSORS
C23 SERIES

THE ALLROUNDERS

- ✓ SMALL PLASTIC HOUSING, $20 \times 30 \times 10$ MM
- ✓ EXCELLENT BACKGROUND SUPPRESSION CHARACTERISTICS WITH PINPOINT LED
- ✓ IO-Link INTERFACE AVAILABLE ON PNP TYPES
- ✓ MUTUAL INTERFERENCE IMMUNITY
- ✓ VERSIONS AVAILABLE WITH STABILITY ALARM AS SECOND OUTPUT
- ✓ ENCLOSURE RATING IP67, ECOLAB APPROVED

PHOTOELECTRIC SENSORS

C23 SERIES

Background Suppression · Diffuse · Transparent object detection · Reflex · Through-beam
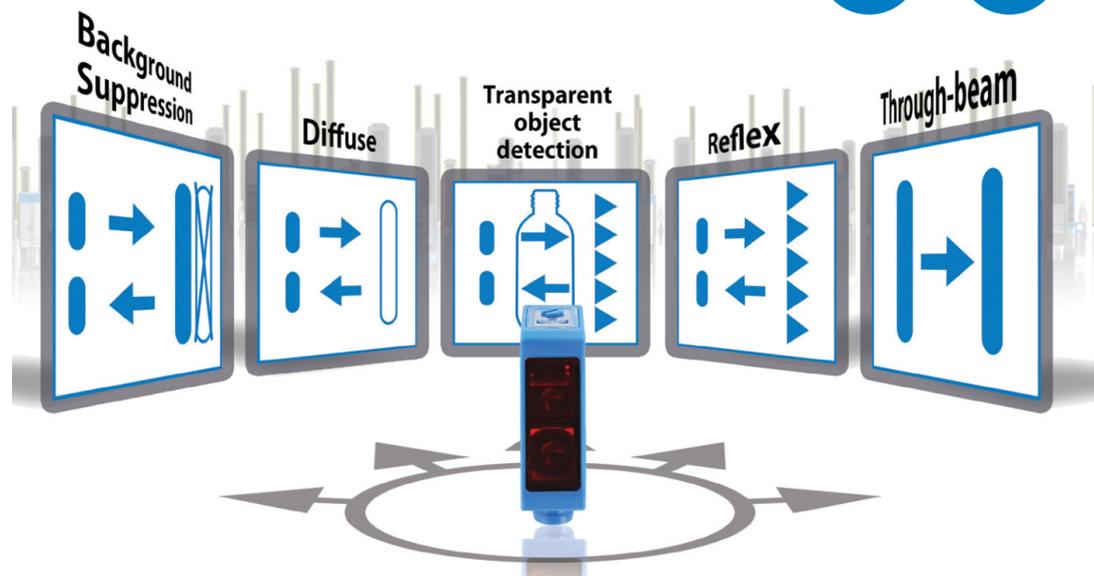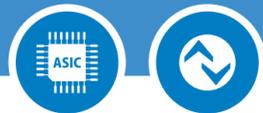
THE IDEAL SOLUTION FOR EVERY APPLICATION

Whatever the application, C23 series sensors meet its highest demands. Their miniature size, first-class sensing ranges, Ecolab-certified housings and practical accessories are ideal for limited spaces or hygienic areas. Versions with background suppression and pinpoint LED ensure high reliability and extended detection ranges, while types with patented UV technology set new benchmarks for transparent object detection. All PNP types include IO-Link communication, a key enabling technology for Industry 4.0 and the Industrial Internet of Things.

POWERFUL CONTRINEX ASIC
**FROM THE WORLD LEADER IN SENSOR ASIC TECHNOLOGY**

- First-class sensing ranges, trimmed in production
- Emitting current regulation
- Mutual interference immunity
- Adjustment processing via potentiometer or teach button
- Stability alarm processing
- Integrated IO-Link
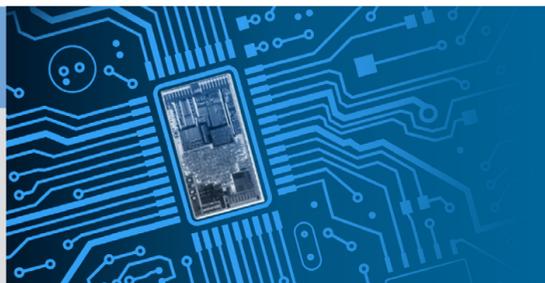
IO-Link
SMART COMMUNICATION WITH CONTRINEX SENSORS

- Continuous monitoring of process data
- Continuous diagnosis of sensor status
- Advanced parameter settings, sensitivity adjustment, remote teach function
- Easy check of sensor ID, to ensure the right sensor is at the right place

DATA MONITORING · DIAGNOSIS · SENSITIVITY · TEACH · LIGHT-ON/DARK-ON SELECTION · SENSOR MODE

DELAY · STRETCH · SEQUENCE SELECTION · DETECTION COUNTER · TEMPERATURE

BACKGROUND SUPPRESSION

REJECTS

In a packaging application, the flexible mounting system of C23 sensors ensures easy installation. A background suppression type with teach function, mounted above the conveyor belt, provides highly reliable sensing. Its simple one- or two-step teach procedure optimizes initial sensor set-up. Sensing range is adjustable either via the teach button or via IO-Link. The IO-Link interface also allows stored sensitivity parameters to be updated remotely, without manual intervention.

EXTENDED SENSING RANGE, HIGH RELIABILITY
LHR: DIFFUSE SENSOR WITH BACKGROUND SUPPRESSION

- Pinpoint LED
- Contrinex optics for excellent black-on-white performance and extended sensing ranges
- 300 mm sensing range on white and gray, 250 mm on black
- Adjustment via potentiometer, teach button or IO-Link
- Dual output with stability alarm
- Mutual interference immunity
- Enclosure rating IP67, Ecolab approved
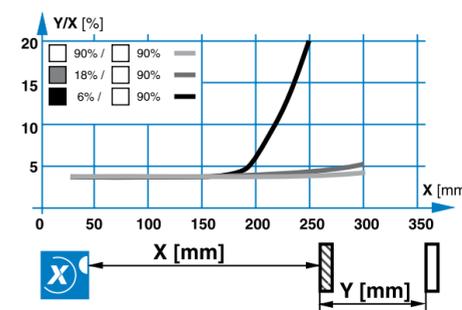
SELECTION OF PRODUCTS

PART REFERENCE	ART. Nº.	SENSING RANGE	ADJUSTMENT	OUTPUT*	CONNECTION*
LHR-C23PA-PMS-403	620-600-150	10…300 mm	Potentiometer	PNP Light-ON	Connector M8 3-pin
LHR-C23PA-PMS-603	620-600-151	10…300 mm	Potentiometer	PNP Light-ON + Dark-ON	Connector M8 4-pin
LHR-C23PA-PMS-60C	620-600-152	10…300 mm	Potentiometer	PNP Light-ON + Stability alarm	Connector M8 4-pin
LHR-C23PA-TMS-403	620-600-162	10…300 mm	Teach or IO-Link	PNP Light-ON	Connector M8 3-pin
LHR-C23PA-TMS-603	620-600-163	10…300 mm	Teach or IO-Link	PNP Light-ON + Dark-ON	Connector M8 4-pin
LHR-C23PA-TMS-60C	620-600-164	10…300 mm	Teach or IO-Link	PNP Light-ON + Stability alarm	Connector M8 4-pin

*NPN versions and cable versions also available

UV TECHNOLOGY

New Contrinex patented UV technology
Received intensity

Conventional technology
Received intensity

UV light intensity is greatly reduced by transparent material, resulting in important received light intensity loss when a transparent object is in the light path. This makes detection extremely reliable and adjustment easy. With conventional technology, light intensity is only slightly reduced by transparent material. Fine adjustment is critical and detection can be unreliable with difficult materials and applications.

UNIQUE PATENTED TECHNOLOGY WITH UV LIGHT
TRU: NEW BENCHMARK IN TRANSPARENT OBJECT DETECTION

- Extremely reliable detection thanks to strong absorption of UV light by plastic and glass material
- Easy sensor set-up, even for thinnest transparent objects
- Autocollimated, polarized UV light beam eliminates blind zone, allowing detection of targets close to the sensor or through a small notch
- Low environmental sensitivity minimizes threshold adjustments and maximizes uptime
- Sensing range up to 1,200 mm
- Adjustment by teach button or IO-Link
- Mutual interference immunity
- Enclosure rating IP67, Ecolab approved

SELECTION OF PRODUCTS

PART REFERENCE	ART. Nº.	SENSING RANGE	ADJUSTMENT	OUTPUT*	CONNECTION*
TRU-C23PA-TMK-603	620-600-312	0…1,200 mm	Teach or IO-Link	PNP Light-ON + Dark-ON	Cable 4-wire
TRU-C23PA-TMK-60D	620-600-313	0…1,200 mm	Teach or IO-Link	PNP Dark-ON + Stability alarm	Cable 4-wire
TRU-C23PA-TMS-603	620-600-316	0…1,200 mm	Teach or IO-Link	PNP Light-ON + Dark-ON	Connector M8 4-pin
TRU-C23PA-TMS-60D	620-600-317	0…1,200 mm	Teach or IO-Link	PNP Dark-ON + Stability alarm	Connector M8 4-pin

*NPN versions also available