





























# DISTANCE SENSORS




## PRECISION FOR MEASURING TASKS

Short range (displacement), mid range, long range distance sensors,  
linear measurement sensors, ultrasonic sensors, optical data transmission




**SICK**  
Sensor Intelligence.

Product		Principle of operation				
		Triangulation	Time-of-flight	Optical linear	Ultrasonic	Optical data transmission
<b>Short range distance sensors (displacement)</b>						
	OD Mini	■				
	OD Value	■				
	OD Max	■				
	OD Precision	■				
	OC Sharp	■				
	DT20 Hi	■				
	Profiler™	■				
<b>Mid range distance sensors</b>						
	Dx35		■			
	Dx50		■			
	Dx50-2		■			
<b>Long range distance sensors</b>						
	Dx100		■			
	Dx500		■			
	DMT		■			
	DML		■			
<b>Linear measurement sensors</b>						
	OLM100			■		
	OLM100 Hi			■		
	OLM200			■		
	OLV			■		
<b>Ultrasonic sensors</b>						
	UM30				■	
	UM18				■	
	UM12				■	
	UC30				■	
	UC12				■	
	UC4				■	
	UM18 Double Sheet Detector				■	
<b>Optical data transmission</b>						
	ISD400					■

Measuring ranges											Page	
0 m	0.01 m	0.1 m	0.5 m	1 m	5 m	10 m	100 m	500 m	1,000 m	5,000 m	10,000 m	
												→ 4
												→ 4
												→ 4
												→ 5
												→ 5
												→ 5
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<b>OD Mini</b>	<b>OD Value</b>	<b>OD Max</b>
Compact, lightweight sensor for precise measurement	Simply accurate measurement	Two sensors in one controller for high accuracy measurement calculations

Technical data overview			
<b>Measuring range</b>	10 mm ... 250 mm	26 mm ... 500 mm, 6 % ... 90 % remission	24 mm ... 450 mm, 6 % ... 90 % remission
<b>Resolution</b>	1 µm ... 200 µm	2 µm ... 100 µm	0.1 µm ... 50 µm
<b>Linearity</b>	± 10 µm ... ± 100 µm	± 1,2 µm ... ± 750 µm	± 2 µm ... ± 200 µm
<b>Response time</b>	2 ms / 4 ms / 8 ms / 16 ms / auto	1 ms / 10 ms / 35 ms / 2 ms / 15 ms / 50 ms	0.5 ms
<b>Measuring frequency</b>	250 Hz / 500 Hz / 1 kHz / 2 kHz / auto	1.3 kHz ... 2 kHz	10 kHz
<b>Switching output</b>	1 x PNP/NPN, selectable	1 x PNP 1 x NPN 2 x PNP 2 x NPN	5 x PNP 5 x NPN
<b>Ambient temperature</b>	Storage -20 °C ... +60 °C	Storage -20 °C ... +60 °C	Operation -10 °C ... +45 °C Storage -20 °C ... +60 °C
<b>Data interface</b>	1 x 4 mA ... 20 mA (< 300 Ω) 1 x 0 V ... 10 V (> 10 kΩ) RS-485	4 mA ... 20 mA (≤ 300 Ω) 0 V ... 10 V (≥ 10 kΩ) RS-422	RS-232

At a glance			
	<ul style="list-style-type: none"> <li>• Compact, robust housing</li> <li>• Display and LEDs on device for visualization of current status</li> <li>• Wide range of interfaces available</li> <li>• Simple teach-in using display or external teaching input</li> <li>• Different measuring ranges enabling measurement from 10 mm up to 250 mm</li> </ul>	<ul style="list-style-type: none"> <li>• Several measurement ranges from 26 mm ... 34 mm to 100 mm ... 500 mm</li> <li>• Easy, LED-based user and teach-in concept</li> <li>• Wide range of models and a wide range of standard interfaces</li> <li>• Laser technology for precise measurement of very small objects</li> <li>• Compact stand-alone device</li> </ul>	<ul style="list-style-type: none"> <li>• Several measurement ranges from 24 ... 26 mm up to 250 mm ... 450 mm</li> <li>• High measurement frequency and high linearity</li> <li>• Variety of selectable integrated calculations based on values from two sensors</li> <li>• Laser technology for precise measurement or detection of very small objects</li> </ul>
			
Detailed information	→ <a href="http://www.mysick.com/en/OD_Mini">www.mysick.com/en/OD_Mini</a>	→ <a href="http://www.mysick.com/en/OD_Value">www.mysick.com/en/OD_Value</a>	→ <a href="http://www.mysick.com/en/OD_Max">www.mysick.com/en/OD_Max</a>

 <p><b>OD Precision</b></p>	 <p><b>OC Sharp</b></p>	 <p><b>DT20 Hi</b></p>	 <p><b>Profiler™</b></p>
<p>Three sensor heads with one controller unit: measuring each dimension with high precision</p>	<p>Chromatic confocal measuring technology offers maximum precision</p>	<p>Reliable, accurate distance measurement up to 1 m</p>	<p>Cost-effective Profile Measurement</p>

<p>24 mm ... 700 mm, 6 % ... 90 % remission; at default settings</p>	<p>6.2 mm ... 6.8 mm (600 µm) 21 mm ... 24 mm (3 mm) 48 mm ... 60 mm (12 mm) 24 mm ... 30 mm (6 mm)</p>	<p>50 mm ... 1,000 mm, 6 % ... 90 % remission</p>	<p>100 mm, ± 25 mm</p>
<p>0.02 µm ... 10 µm</p>	<p>0.018 µm, 15 bit 0.092 µm, 15 bit 0.336 µm, 15 bit 5.5 nm</p>	<p>100 µm ... 1,000 µm</p>	<p>X-direction 25 µm Z-direction 2 µm</p>
<p>± 1,6 µm ... ± 400 µm</p>	<p>± 60 nm ... ± 4 µm</p>	<p>± 500 µm ... ± 6.000 µm</p>	<p>X-direction ± 170 µm ... ± 270 µm Z-direction ± 50 µm</p>
<p>0.1 ms</p>	<p>500 µs</p>	<p>2.5 ms / 10 ms / 40 ms / 5 ms / 20 ms / 80 ms</p>	<p>5 ms</p>
<p>1.25 kHz ... 10 kHz</p>	<p>32 Hz ... 4,000 Hz</p>	<p>400 Hz / 200 Hz</p>	<p>-</p>
<p>5 x PNP 5 x NPN</p>	<p>-</p>	<p>1 x PNP 1 x NPN</p>	<p>3 x PNP 3 x NPN</p>
<p>Storage -20 °C ... +60 °C</p>	<p>Storage -25 °C ... +55 °C</p>	<p>Operation -20 °C ... +55 °C Storage -40 °C ... +60 °C</p>	<p>Operation -10 °C ... +40 °C Storage -20 °C ... +60 °C</p>
<p>RS-232 RS-422 USB</p>	<p>RS-232 RS-422</p>	<p>1 x 4 mA ... 20 mA (&lt; 300 Ω)</p>	<p>RS-485</p>

<ul style="list-style-type: none"> <li>• Many measurement ranges from 24 mm ... 26 mm up to 300 mm ... 700 mm</li> <li>• High measuring accuracy and frequency</li> <li>• Glass thickness measurement with just one sensor head</li> <li>• Different light spot sizes</li> <li>• Integrated calculations for up to three sensors</li> <li>• Stand alone use via RS-422</li> </ul> 	<ul style="list-style-type: none"> <li>• Many measuring lengths from 600 µm up to 12 mm</li> <li>• Chromatic confocal sensor technology for the highest reliability and precision</li> <li>• Measures the thickness of transparent materials using just one sensor head</li> <li>• Very small light spot is able to measure minuscule objects</li> </ul> 	<ul style="list-style-type: none"> <li>• Four measuring ranges from 50 mm up to 1,000 mm</li> <li>• Very high linearity of up to ± 0.5 mm</li> <li>• Red laser</li> <li>• Scaleable analog and switching output</li> <li>• Display with easy to use setup menu</li> <li>• Advanced settings (e.g., averaging function, external laser-off, etc.)</li> </ul> 	<ul style="list-style-type: none"> <li>• Measure complex profiles with just one laser line</li> <li>• Analyze up to four areas at the same time</li> <li>• More than 10 integrated measurement functions, e.g., height, width, and inclination</li> <li>• Sensor head and evaluation unit in one device</li> <li>• Commissioning via software or integrated display with operating elements</li> </ul> 
<p>→ <a href="http://www.mysick.com/en/OD_Precision">www.mysick.com/en/OD_Precision</a></p>	<p>→ <a href="http://www.mysick.com/en/OC_Sharp">www.mysick.com/en/OC_Sharp</a></p>	<p>→ <a href="http://www.mysick.com/en/DT20_Hi">www.mysick.com/en/DT20_Hi</a></p>	<p>→ <a href="http://www.mysick.com/en/Profiler">www.mysick.com/en/Profiler</a></p>



**Dx35**

Larger than life performance – flexible measurement and detection up to 35 m

**Technical data overview**

<b>Measuring range</b>	50 mm ... 12,000 mm, 90 % remission 50 mm ... 5,300 mm, 18 % remission 50 mm ... 3,100 mm, 6 % remission 200 mm ... 35,000 mm, on reflective tape "Diamond Grade"
<b>Repeatability</b>	0.5 mm ... 5 mm
<b>Accuracy</b>	Typ. ± 10 mm / typ. ± 15 mm
<b>Response time</b>	2.5 ms ... 192.5 ms
<b>Data interface</b>	IO-Link
<b>Analog output</b>	1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V / -
<b>Switching output</b>	1 x / 2 x push-pull: PNP/NPN
<b>Ambient temperature</b>	Operation -30 °C ... +55 °C Storage -40 °C ... +75 °C
<b>Light source</b>	Laser, red / Laser, infrared
<b>Laser class</b>	2 (EN 60825-1) / 1 (EN 60825-1)

**At a glance**

- Maximum reliability, immunity to ambient light, and best price/performance ratio thanks to HDDM™ technology
- Measuring range of 0.05 m to 12 m for natural objects or 0.2 m to 35 m on reflective tape
- Devices with analog and switching output, or just switching
- Infrared or red laser in class 1 or class 2
- Repeatability: 0.5 mm to 5 mm
- Small housing size
- IO-Link



Detailed information

→ [www.mysick.com/en/Dx35](http://www.mysick.com/en/Dx35)



**Dx50**

Measuring distances – reliable, precise and versatile



**Dx50-2**

The new era in distance measurement

200 mm ... 20,000 mm, 90 % remission  
 200 mm ... 8,500 mm, 18 % remission  
 200 mm ... 5,000 mm, 6 % remission  
 200 mm ... 50,000 mm, on reflective tape "Diamond Grade"

0.25 mm ... 5 mm

± 3 mm / ± 7 mm / ± 10 mm

10 ms ... 160 ms

RS-422  
 SSI

1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V

1 x PNP  
 1 x NPN  
 2 x PNP  
 2 x NPN

Operation -30 °C ... +65 °C  
 Storage -40 °C ... +75 °C

Laser, red

2 (EN 60825-1) / 1 (EN 60825-1)

200 mm ... 30,000 mm, 90 % remission  
 200 mm ... 17,000 mm, 18 % remission  
 200 mm ... 10,000 mm, 6 % remission

0.5 mm ... 5 mm

± 7 mm

0.83 ms ... 150 ms

IO-Link

1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V / -

1 x / 2 x complementary / 2 x push-pull: PNP/NPN

Operation -40 °C ... +65 °C  
 Storage -40 °C ... +75 °C

Laser, red

2 (EN 60825-1)

- HDDM™ technology offers best reliability, immunity to ambient light and price/performance ratio
- Measurement ranges of 10 m or 20 m directly onto the object or even 50 m on reflector
- Different performance levels depending on product and laser class chosen
- Different interfaces: switching, analog or serial interface
- Display with intuitive and consistent operating concept
- Robust die-cast zinc metal housing
- Operating temperature from -30 °C to +65 °C



→ [www.mysick.com/en/Dx50](http://www.mysick.com/en/Dx50)

- Measuring range up to 10 m on black targets and up to 30 m on white targets within a compact housing
- Output rate up to 3,000/s
- Reliable, patented HDDM™ time-of-flight technology
- Withstands extreme temperatures from -40 °C to +65 °C thanks to rugged metal housing
- Shape comparison integrated in sensor
- IO-Link, analog and switching output
- Display with intuitive menu structure and easy teach option or WiFi for configuration with the SOPASair app
- Enclosure rating IP 65 and IP 67



→ [www.mysick.com/en/Dx50-2](http://www.mysick.com/en/Dx50-2)

	 <p><b>Dx100</b></p>	 <p><b>Dx500</b></p>	
	Leading in versatility and flexibility		Precision distance measurement for natural objects – up to 70 m on white, 30 m on black

**Technical data overview**

<b>Measuring range</b>	0.15 m ... 300 m, on reflective tape “Diamond Grade”	0.2 m ... 70 m, 90 % remission 0.2 m ... 30 m, 6 % remission
<b>Repeatability</b>	0.5 mm ... 2 mm	1 mm
<b>Accuracy</b>	± 2 mm ... ± 3 mm	± 3 mm
<b>Data interface</b>	SSI RS-422 PROFINET PROFIBUS DP CANopen EtherNet/IP	Q <sub>A</sub> RS-422 CAN (Layer 2)
<b>Ambient temperature</b>	Operation: -20 °C ... +55 °C Operation with cooling case: -20 °C ... +75 °C Operation with heating: -40 °C ... +55 °C Storage: -40 °C ... +75 °C	Operation: -10 °C ... +45 °C Operation with cooling case: -40 °C ... +75 °C Operation with heating: -40 °C ... +45 °C Storage: -25 °C ... +75 °C
<b>Output time</b>	Synchronous to PLC request (dependent on interfaces)	150 ms ... 6,000 ms
<b>Light source</b>	Laser, red	Laser, red

**At a glance**

- 3-axis alignment bracket with quick lock system
- SpeedCon™ and standard M12 electrical connections
- Small and rugged metal housing
- Display with intuitive menu and easy-to-see status LEDs
- Pre-failure and diagnostic data available
- Numerous fieldbus and Ethernet interfaces
- Elongated holes for precise adjustment of sensor offset (or “home position”)
- Versatile accessories



- Measurement range of up to 70 m on white targets and 30 m on black targets
- Very high accuracy and repeatability
- Red laser, Class 2
- Heated versions for cold store applications
- Tough, metal housing
- Serial interfaces as well as analog and digital outputs available
- Display for easy sensor setup



Detailed information

→ [www.mysick.com/en/Dx100](http://www.mysick.com/en/Dx100)

→ [www.mysick.com/en/Dx500](http://www.mysick.com/en/Dx500)





**DMT**

The longest measurement range without a reflector for challenging applications



**DML**

Master challenges precisely with a range of up to 1,200 m on a reflector

0.5 m ... 155 m, 90 % remission  
0.5 m ... 65 m, 18 % remission  
0.5 m ... 40 m, 6 % remission

7 mm  
10 mm  
± 10 mm

RS-232  
RS-422  
PROFIBUS DP

Operation: -10 °C ... +55 °C  
Operation with cooling case: -10 °C ... +75 °C  
Storage: -25 °C ... +70 °C

1 ms ... 4,000 ms

Laser, infrared

0.5 m ... 600 m, on reflective tape "Diamond Grade"  
0.5 m ... 800 m, on reflector PL880FS01  
0.5 m ... 1,200 m, on reflector OP60

6 mm

± 10 mm

RS-232  
RS-422  
PROFIBUS DP

Operation: -10 °C ... +55 °C  
Operation with cooling case: -10 °C ... +75 °C  
Storage: -25 °C ... +70 °C

1 ms ... 600 ms

Laser, infrared

- Measurement range from 0.5 m up to 155 m on natural targets
- Excellent accuracy thanks to time-of-flight measurement
- Easy alignment thanks to pilot laser
- Freely programmable parameters
- RS-422, RS-232, PROFIBUS, analog and two switching outputs
- Near field blanking parameter for operation through a protection window
- Models with filter for measurement of glowing, hot metal (up to 1,400 °C)



→ [www.mysick.com/en/DMT](http://www.mysick.com/en/DMT)

- Measurement range up to 1,200 m with a reflector
- Time-of-flight measurement
- Easy alignment thanks to pilot laser
- Freely programmable parameters
- RS-422, RS-232, PROFIBUS, analog and two switching outputs
- Near field blanking parameter for operation through a protection window



→ [www.mysick.com/en/DML](http://www.mysick.com/en/DML)



**OLM100**

Great flexibility in a small housing



**OLM100 Hi**

High performance in a small housing

**Technical data overview**

<b>Measuring range</b>	0 m ... 10,000 m	0 m ... 10,000 m
<b>Sensing distance</b>	100 mm ± 20 mm 130 mm ± 20 mm	100 mm ± 20 mm
<b>Repeatability</b>	1 mm	0.15 mm
<b>Max. movement speed</b>	4 m/s	10 m/s
<b>Data interface</b>	CANopen RS-422 RS-485 SSI	CANopen RS-422 SSI
<b>Ambient temperature</b>	Operation: -30 °C ... +60 °C Storage: -40 °C ... +75 °C	Operation: -30 °C ... +60 °C Storage: -40 °C ... +75 °C
<b>Output time</b>	1 ms / 5 ms	1 ms / 5 ms
<b>Light source</b>	LED, red	LED, red

**At a glance**

- Highly accurate non-contact bar code positioning system
- Movement speed of up to 4 m/s can be achieved
- Wear and maintenance-free thanks to camera technology
- Adjustable resolution as low as 0.1 mm
- Precise positioning up to 10,000 m
- Compact, extremely rugged magnesium housing
- Wide range of interfaces: SSI, RS-422, RS-485, and CANopen
- Large temperature range from -30°C to +60°C



- Highly accurate non-contact bar code positioning system
- Movement speed of up to 10 m/s can be achieved
- Wear and maintenance-free thanks to camera technology
- Adjustable resolution as low as 0.1 mm
- Precise positioning up to 10,000 m
- Compact, extremely rugged magnesium housing
- Wide range of interfaces: SSI, RS-422 and CANopen
- Large temperature range from -30°C to +60°C



Detailed information

→ [www.mysick.com/en/OLM100](http://www.mysick.com/en/OLM100)

→ [www.mysick.com/en/OLM100\\_Hi](http://www.mysick.com/en/OLM100_Hi)



**OLM200**

Innovative positioning with fieldbus interfaces



**OLV**

The New Dimension in Non-Contact Length and Speed Measurement

	0 m ... 10,000 m	Speed measuring range: 1.5 m/min ... 4,800 m/min
	100 mm ± 20 mm	120 mm ± 5 mm
	130 mm ± 20 mm	240 mm ± 10 mm
	0.15 mm	-
	10 m/s	-
	PROFIBUS DP-V0	3 x 5 V
	PROFINET IO/RT	TTL freely configurable
	EtherNet/IP	1 x RS-232
	Operation: -30 °C ... +60 °C	Operation: +10 °C ... +45 °C
	Storage: -40 °C ... +75 °C	Storage: -25 °C ... +75 °C
	2.5 ms	20 ms
	LED, red	Laser, infrared

- Highly accurate non-contact bar code positioning system
- Movement speed of up to 10 m/s can be achieved
- Wear and maintenance-free thanks to camera technology
- Adjustable resolution as low as 0.1 mm
- Compatible with standard and SPEEDCON™ M12 plug connectors
- Output of position and speed data, as well as pre-failure notifications via fieldbus interfaces
- Large temperature range from -30°C to +60°C



→ [www.mysick.com/en/OLM200](http://www.mysick.com/en/OLM200)

- Non-contact, material-independent length and speed measurement
- Permanently calibrated, maintenance-free measuring system
- Measurement accuracy of up to ± 0.05 % (depends on total measuring length)
- Sensing range: 120 mm (optional 240 mm)
- Compact dimensions: 167 mm x 94 mm x 39 mm (L x W x H)
- Extremely rugged aluminum housing
- Weight: approx. 1 kg
- Quick configuration and plug and play commissioning



→ [www.mysick.com/en/OLV](http://www.mysick.com/en/OLV)

		
<b>UM30</b>	<b>UM18</b>	<b>UM12</b>
The universal application solver	Simple set up, perfect detection	Small sensor, great benefits

Technical data overview				
<b>Working range, limiting range</b>	30 mm ... 6,000 mm, 8,000 mm	20 mm ... 1,000 mm, 1,300 mm	20 mm ... 240 mm, 350 mm	
<b>Resolution</b>	≥ 0.18 mm	≥ 0.069 mm ≥ 0.2 mm	≥ 0.069 mm	
<b>Repeatability</b>	± 0.15 %	± 0.15 %	± 0.15 %	
<b>Response time</b>	50 ms ... 240 ms	32 ms ... 80 ms	24 ms ... 30 ms	
<b>Output time</b>	8 ms ... 60 ms	8 ms ... 20 ms	8 ms ... 10 ms	
<b>Analog output</b>	1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V	1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V	1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V	
<b>Switching output</b>	1 x PNP 1 x NPN 2 x PNP 2 x NPN	1 x PNP 1 x NPN 2 x PNP 2 x NPN 1 x push-pull: PNP/NPN	1 x PNP 1 x NPN	

**At a glance**

- Integrated time-of-flight technology detects objects such as glass, liquids and transparent foils, independent of color
- Range up to 8,000 mm
- Display enables fast and flexible sensor adjustment
- Immune to dust, dirt and fog
- Available with combined analog and digital outputs
- Synchronization and multiplexing
- Adjustable sensitivity
- Three operation modes: Distance to Object (DtO), Window (Wnd) or Object between sensor and background (ObSB)



- Reliable measurement independent of material color, transparency, gloss and ambient light
- Four ranges up to 1,300 mm
- Short metal or plastic M18 housing with a length of 41 mm
- Straight or right-angle version
- High immunity to dirt, dust, humidity and fog
- PNP/NPN switching output, analog output or push-pull switching output with IO-Link
- Synchronization and multiplex modes are available



- Reliable measurement, regardless of material color, transparency, gloss, or ambient light
- Very short and rugged M12 metal housing
- Variants with PNP/NPN switching output or analog output
- Immune to dirt, dust, humidity, and fog
- Detection, measurement, or positioning with ultrasound technology
- Cable teach-in



Detailed information	→ <a href="http://www.mysick.com/en/UM30">www.mysick.com/en/UM30</a>	→ <a href="http://www.mysick.com/en/UM18">www.mysick.com/en/UM18</a>	→ <a href="http://www.mysick.com/en/UM12">www.mysick.com/en/UM12</a>
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**UC30**

Rugged. Reliable. Rectangular.



**UC12**

Ultrasonic technology housed in an industry-proven design



**UC4**

Small, precise, ultrasonic



**UM18 Double Sheet Detector**

Highly efficient double sheet detection for your print job

350 mm ... 6,000 mm, 8,000 mm ≥ 0.18 mm	20 mm ... 250 mm, 350 mm ≥ 0.1 mm	13 mm ... 150 mm, 250 mm ≥ 0.1 mm	-
± 0.15 %	± 0.15 %	± 0.15 %	Double sheets not completely glued together
180 ms ... 240 ms	30 ms	10 ms ... 30 ms	-
43 ms ... 60 ms	8 ms	5 ms ... 10 ms	2.5 ms ... 6.5 ms
1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V	-	1 x 4 mA ... 20 mA / 1 x 0 V ... 10 V	-
2 x PNP 2 x NPN 1 x push-pull: PNP/NPN	2 x PNP 2 x NPN	1 x PNP 1 x NPN	2 x PNP 2 x NPN

- Reliable operation, regardless of material color, transparency, gloss, and ambient light
- Rugged rectangular housing with teach-in buttons
- Range up to 8,000 mm
- Variants with analog output, push-pull output with IO-Link or two PNP/NPN switching outputs
- Immune to dirt, dust, humidity, and fog
- Detection, measurement, and positioning with ultrasonic technology
- Adjustable sensitivity



→ [www.mysick.com/en/UC30](http://www.mysick.com/en/UC30)

- Object detection independent of material color and ambient light – even transparent foils, glass, liquids and bottles are reliably detected
- Fast and easy teach-in with single push-button
- Immune to dirt, dust and fog
- Two ambivalent switching outputs (Q, /Q)
- Excellent background suppression
- Three operation modes: Distance to Object (DtO), Window (Wnd) or Object between sensor and background (ObSB)



→ [www.mysick.com/en/UC12](http://www.mysick.com/en/UC12)

- Reliable measurement, regardless of material color, transparency, gloss, and ambient light
- Ultrasonic technology in a miniature housing
- Detection, measurement, and positioning with ultrasonic technology
- Immune to dirt, dust, humidity, and fog
- Variants with PNP/NPN switching output or analog output
- Precise background suppression
- Teach-in button



→ [www.mysick.com/en/UC4](http://www.mysick.com/en/UC4)

- Double-sheet detection of foils, metal sheets and corrugated cardboard with F, N and G flute sizes
- Installation distance 37 mm ... 43 mm
- Automatic adjustment, plug and play operation
- Color-independent detection
- Two switching outputs for double and miss-fed sheets



→ [www.mysick.com/en/UM18\\_Double\\_Sheet\\_Detector](http://www.mysick.com/en/UM18_Double_Sheet_Detector)



**ISD400**

Wireless communication – fast and easy

**Technical data overview**

Transmission range	0.2 m ... 200 m
Interfaces overview	PROFIBUS DP Ethernet
Enclosure rating	IP 65
Ambient temperature operation	-40 °C ... +55 °C
Data transmission rate	3 Mbit/s / 100 Mbit/s

**At a glance**

- PROFIBUS DP interface for the ISD400 Core
- Protocol-free Fast Ethernet interface for the ISD400 Pro
- Fast Ethernet with a transmission rate of 100 Mbps for the ISD400 Pro
- Connection and operation without opening the device
- Version with heating for use in temperatures as low as -40 °C



**Detailed information**

→ [www.mysick.com/en/ISD400](http://www.mysick.com/en/ISD400)

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- ✔ Requests for quotation, ordering and delivery tracking made easy.
- ✔ Overview of all quotations and orders.
- ✔ Direct ordering: submit even very complex orders in moments.
- ✔ View the status of quotations and orders at any time. Receive e-mail notifications of status changes.
- ✔ Easily repeat previous orders.
- ✔ Conveniently export quotations and orders to work with your systems.



## SERVICES FOR MACHINES AND SYSTEMS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.



- 
**Consulting and design**  
 Safe and professional
- 
**Product and system support**  
 Reliable, fast and on-site
- 
**Verification and optimization**  
 Safe and regularly inspected
- 
**Upgrade and retrofits**  
 Easy, safe and economical
- 
**Training and education**  
 Practical, focused and professional

## SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With almost 7,000 employees and over 50 subsidiaries and equity investments as well as numerous representative offices worldwide, we are always close to our customers. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in various industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services round out our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is “Sensor Intelligence.”**

### **Worldwide presence:**

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and additional representatives → [www.sick.com](http://www.sick.com)