

# Ultrasonic Diffuse, RS 485 Output Type UC 80 CND 40 ER

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- 80 x 80 x 43 mm polyester housing
- Sensing distance: 400-4000 mm
- Output: RS 485
- Power supply: 19 to 30 VDC
- 8° beam angle
- Alignment LED
- Protection: Short-circuit, reverse polarity, transients
- Protection degree IP 67

## Product Description

A diffuse ultrasonic sensor with a sensing of 400-4000 mm with an analog RS485 communication output. Both the housing and the sensor transducer are designed for tough environment. A high carrier frequency secures a

precise measuring and high noise immunity. Due to use of microprocessor control the digital filtering make the sensor very immune against most electromagnetic interferences and enables synchronisation in an easy way.

## Ordering Key

**UC 80 CND 40 ER**

Ultrasonic sensor	_____
Housing style	_____
Housing size	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Sensing distance	_____
Output type	_____
Output configuration	_____

## Type Selection

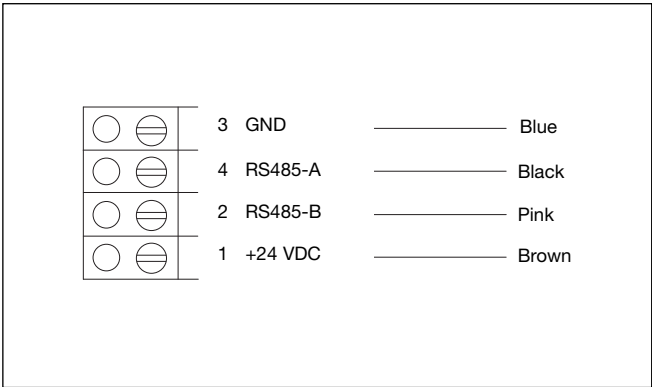
Housing dimensions	Connection	Rated operating dist. (S <sub>n</sub> )	Ordering no. RS 485 output
80 x 80 x 43 mm	Screw terminals	400-4000 mm	<b>UC 80 CND 40 ER</b>

## Specifications

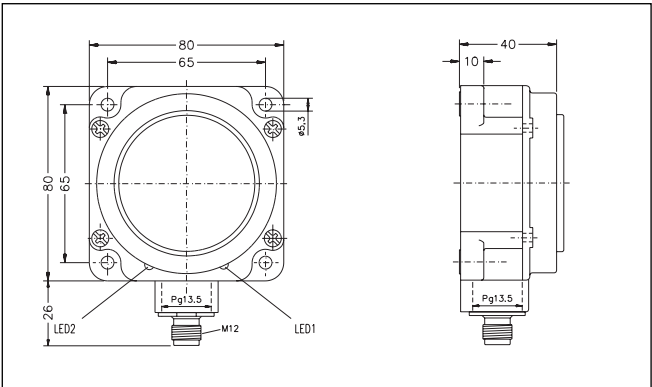
<b>Rated operational volt. (U<sub>e</sub>)</b>	19 to 30 VDC (ripple included)	<b>Rated operating distance</b>	400-4000 mm
<b>Ripple</b>	≤ 10%	<b>Carrier frequency</b>	120 kHz
<b>No-load supply current (I<sub>o</sub>)</b>	≤ 50 mA	<b>Beam angle</b>	8°
<b>Protection</b>	Short-circuit, transients and reverse polarity	<b>Temperature compensation</b>	Yes
<b>Rated insulation voltage</b>	> 1 kV	<b>Ambient temperature</b> Operating Storage	0° to +70°C (32° to +158°F) -20° to +80°C (-4° to +176°F)
<b>Output</b> Resolution Linearity Repeatability Temperature deviation	RS 485 min. 20 mm 0.5% 0.5% 1%	<b>Degree of protection</b>	IP 67 (Nema 1, 3, 4, 6, 13)
<b>Indications</b> Status "Occupied" Alignment	LED1, yellow LED2, green	<b>Housing material</b>	Polyester PBTP
		<b>Dimensions</b>	80 x 80 x 43 mm
		<b>Connection</b>	Screw terminals, PG 13.5
		<b>Weight</b>	250 g
		<b>CE-marking</b>	Yes



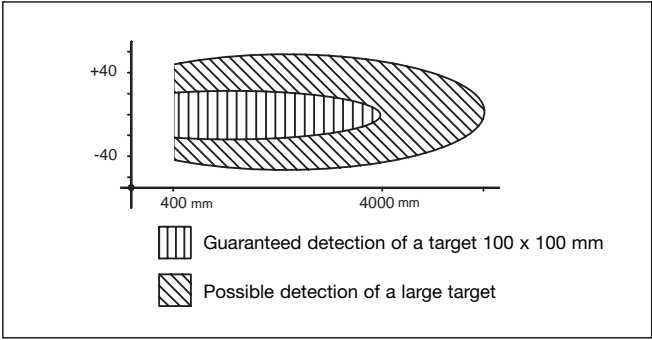
Wiring Diagram



Dimensions



Detection Range



Installation Hints

<p>To avoid interference from inductive voltage/ current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables</p>	<p>Relief of cable strain</p> <p>Incorrect</p> <p>Correct</p> <p>The cable should not be pulled</p>	<p>Protection of the sensing face</p> <p>A proximity switch should not serve as mechanical stop</p>	<p>Switch mounted on mobile carrier</p> <p>Any repetitive flexing of the cable should be avoided</p>
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