

# Ultrasonic Thru Scan, NPN Output Type UC 80 CNS 40 NO



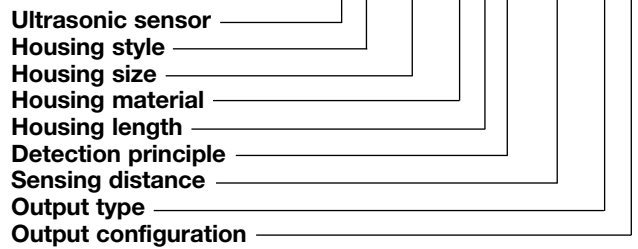
- 80 x 80 x 43 mm polyester housing
- Sensing distance: 40-4000 mm
- Retro-reflective
- Teach-in adjustment
- Output: NPN
- Power supply: 19 to 30 VDC
- 8° beam angle
- Alignment LED
- Protection: Short-circuit, reverse polarity, transients
- Protection degree IP 67

## Product Description

A diffuse ultrasonic sensor with a sensing of 400-4000 mm with a NPN transistor 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 CNS 40 NO**



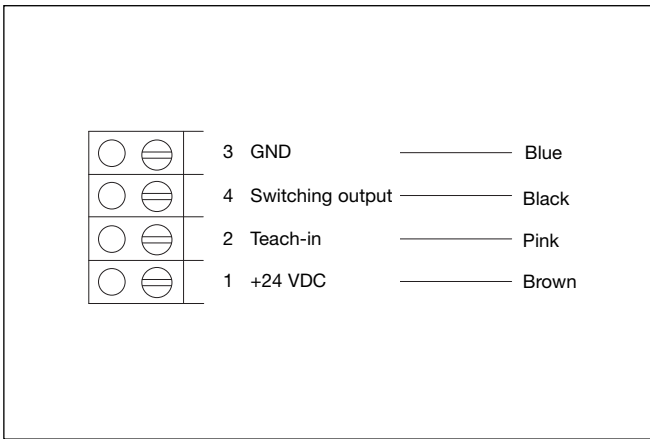
## Type Selection

Housing dimensions	Connection	Rated operating dist. (S <sub>r</sub> )	Ordering no. Thru Scan, NPN
80 x 80 x 43 mm	Screw terminals	400-4000 mm	<b>UC 80 CNS 40 NO</b>

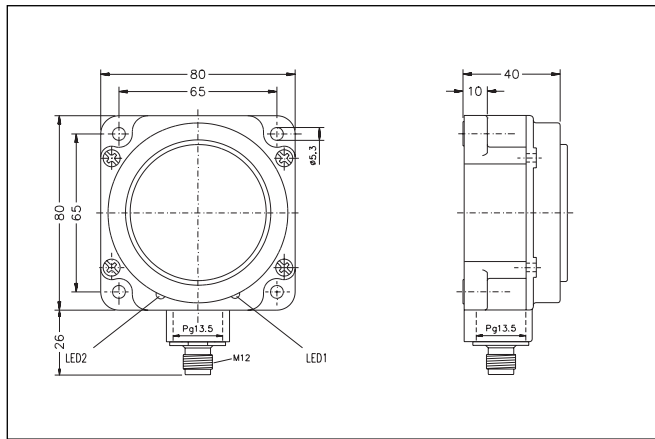
## Specifications

<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>e</sub>)</b>	≤ 50 mA	<b>Beam angle</b>	8°
<b>Protection</b>	Short-circuit, transients and reverse polarity	<b>Ambient temperature</b>	Operating: 0° to +70°C (32° to +158°F) Storage: -20° to +80°C (-4° to +176°F)
<b>Rated insulation voltage</b>	> 1 kV	<b>Degree of protection</b>	IP 67 (Nema 1, 3, 4, 6, 13)
<b>Output</b>	Transistor, NPN	<b>Housing material</b>	Polyester PBTP
<b>Resolution</b>	min. 20 mm	<b>Dimensions</b>	80 x 80 x 43 mm
<b>Linearity</b>	0.5%	<b>Connection</b>	Screw terminals, PG 13.5
<b>Repeatability</b>	0.5%	<b>Weight</b>	250 g
<b>Temperature deviation</b>	1%	<b>CE-marking</b>	Yes
<b>Temperature compensation</b>	Yes		
<b>Indications</b>			
Alignment	LED, green		
Output status	LED, yellow		

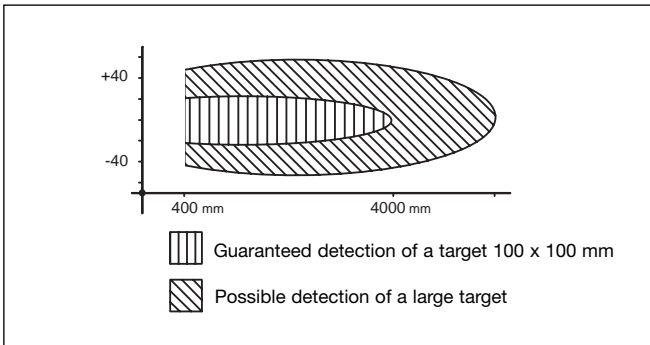
## Wiring Diagram



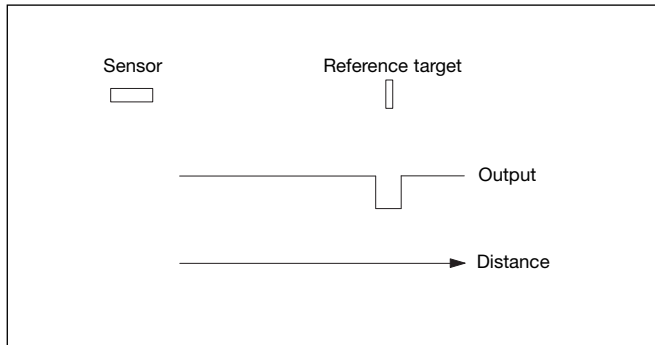
## Dimensions



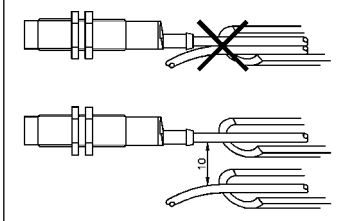
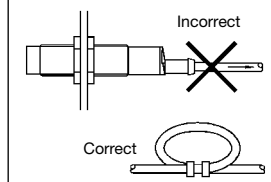
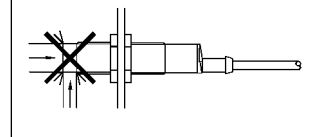
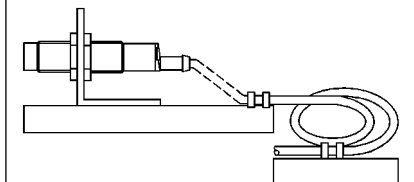
## Detection Range



## Function Diagram



## 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>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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