

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



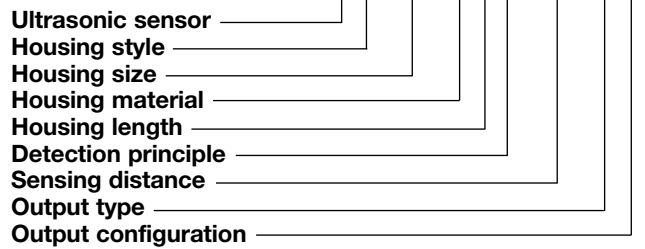
- 80 x 80 x 43 mm polyester housing
- Sensing distance: 40-4000 mm
- Retro-reflective
- Teach-in adjustment
- Output: NPN
- Power supply: 19 to 30 VDC
- 8° beam angle
- Alignment LED
- Protection: Short-circuit, reverse polarity, transients
- Protection degree IP 67

## 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.

## Ordering Key **UC 80 CNS 40 NO**



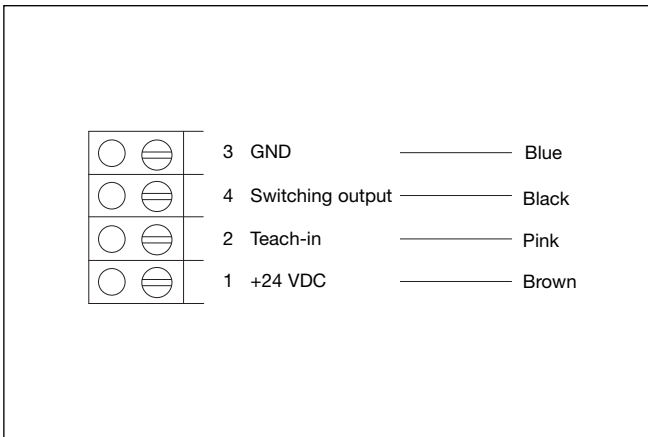
## Type Selection

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

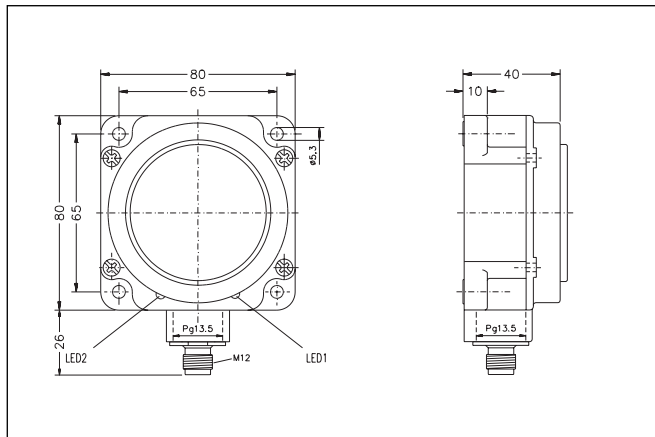
## Specifications

<b>Rated operational volt. (U<sub>e</sub>)</b>	19 to 30 VDC (ripple included)	<b>Beam angle</b>	8°
<b>Ripple</b>	≤ 10%	<b>Ambient temperature</b>	
<b>No-load supply current (I<sub>o</sub>)</b>	≤ 50 mA	Operating	0° to +70°C (32° to +158°F)
<b>Protection</b>	Short-circuit, transients and reverse polarity	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		
<b>Off-state current (I<sub>r</sub>)</b>	200 μA		
<b>Voltage drop (U<sub>d</sub>)</b>	4.5 V		
<b>Power-on delay</b>	< 10 ms		
<b>Rated operating distance</b>	400-4000 mm		
<b>Carrier frequency</b>	120 kHz		

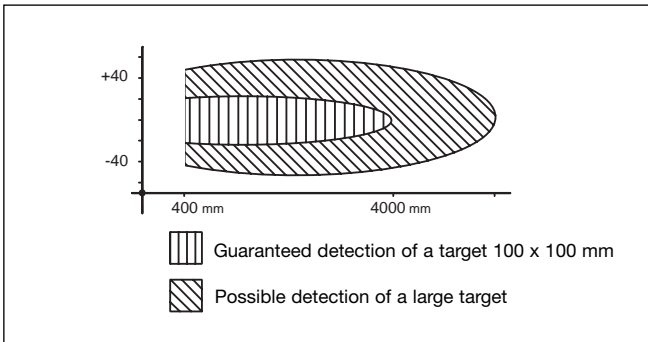
## Wiring Diagram



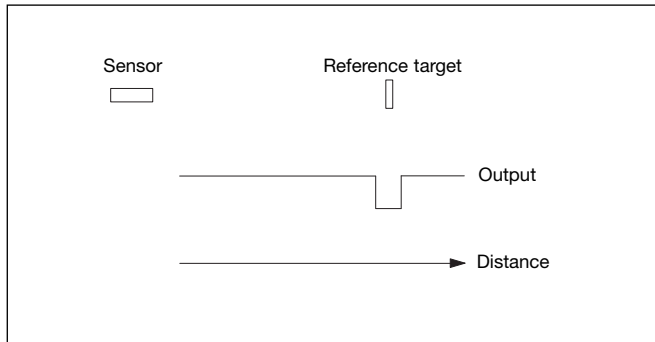
## Dimensions



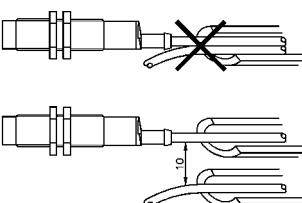
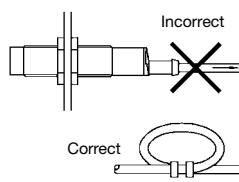
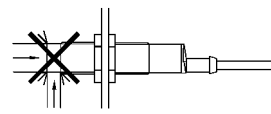
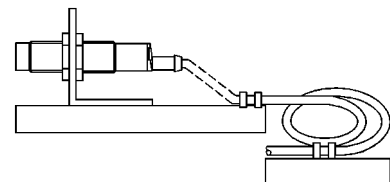
## Detection Range



## 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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