

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

CARLO GAVAZZI



- 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

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 _r)	Ordering no. Thru Scan, NPN
80 x 80 x 43 mm	Screw terminals	400-4000 mm	UC 80 CNS 40 NO

Specifications

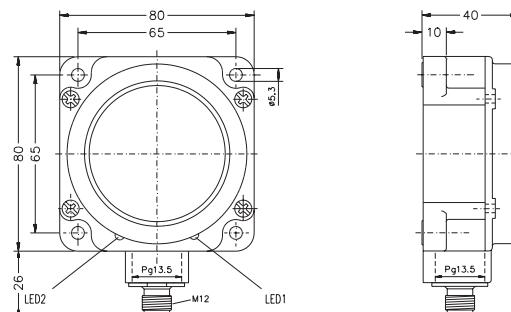
Rated operational volt. (U _e)	19 to 30 VDC (ripple included)
Ripple	≤ 10%
No-load supply current (I _o)	≤ 50 mA
Protection	Short-circuit, transients and reverse polarity
Rated insulation voltage	> 1 kV
Output	Transistor, NPN
Resolution	min. 20 mm
Linearity	0.5%
Repeatability	0.5%
Temperature deviation	1%
Temperature compensation	Yes
Indications	
Alignment	LED, green
Output status	LED, yellow

Rated operating distance	400-4000 mm
Carrier frequency	120 kHz
Beam angle	8°
Ambient temperature	
Operating	0° to +70°C (32° to +158°F)
Storage	-20° to +80°C (-4° to +176°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Polyester PBTP
Dimensions	80 x 80 x 43 mm
Connection	Screw terminals, PG 13.5
Weight	250 g
CE-marking	Yes

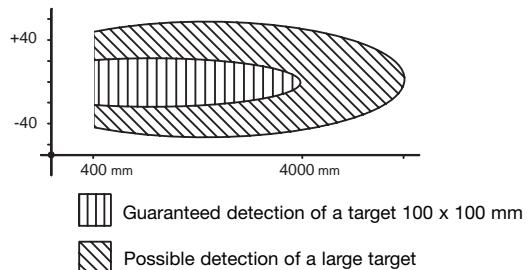
Wiring Diagram

	3 GND	Blue
	4 Switching output	Black
	2 Teach-in	Pink
	1 +24 VDC	Brown

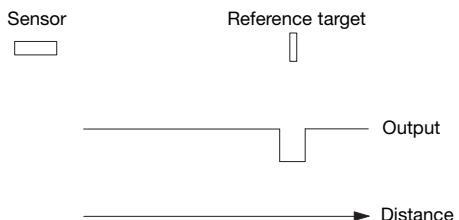
Dimensions



Detection Range



Function Diagram



Installation Hints

<i>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</i>	<i>Relief of cable strain</i>	<i>Protection of the sensing face</i>	<i>Switch mounted on mobile carrier</i>

The cable should not be pulled

A proximity switch should not serve as mechanical stop

Any repetitive flexing of the cable should be avoided

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