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

CARLO GAVAZZI

- **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_n)	Ordering no. RS 485 output
80 x 80 x 43 mm	Screw terminals	400-4000 mm	**UC 80 CND 40 ER**

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	RS 485
Resolution	min. 20 mm
Linearity	0.5%
Repeatabilty	0.5%
Temperature deviation	1%
Indications	
Status “Occupied”	LED1, yellow
Alignment	LED2, green

Rated operating distance	400-4000 mm
Carrier frequency	120 kHz
Beam angle	8°
Temperature compensation	Yes
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

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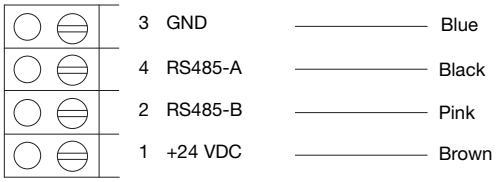
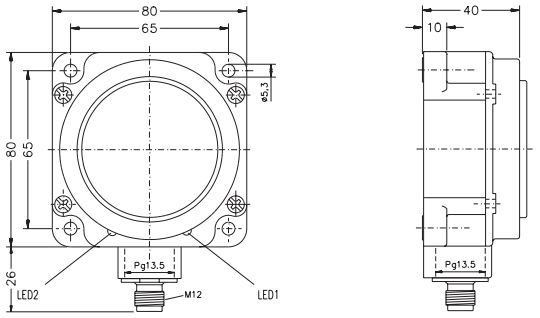
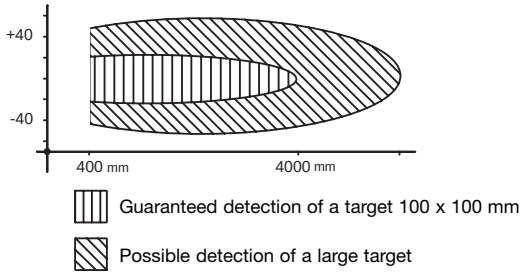
Wiring Diagram



Dimensions

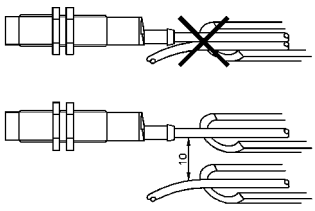


Detection Range

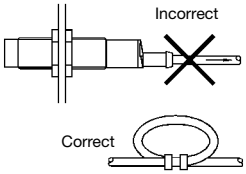


Installation Hints

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

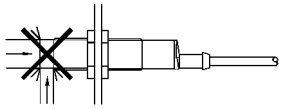


Relief of cable strain



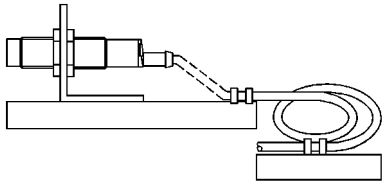
The cable should not be pulled

Protection of the sensing face



A proximity switch should not serve as mechanical stop

Switch mounted on mobile carrier



Any repetitive flexing of the cable should be avoided