



Model Number

UCC2500-50GK-B26-8MOL

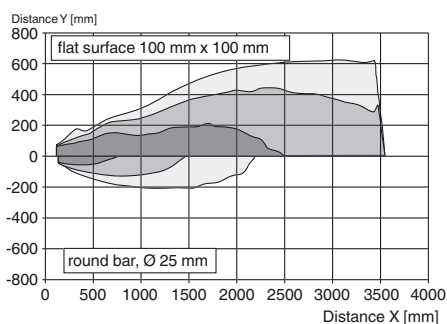
Single head system

Features

- Thread M50
- PTFE coated transducer
- Power save mode
- PWM output
- Physical LIN interface
- Serial Interfaces
- Temperature compensation

Diagrams

Characteristic response curve



Technical data

General specifications

Sensing range	150 ... 2500 mm
Dead band	0 ... 150 mm
Standard target plate	100 mm x 100 mm
Transducer frequency	approx. 120 kHz

Electrical specifications

Operating voltage U_B	for UART and PWM operation: $U_{UART/PWM} = 2.5 \dots 5 \text{ V DC}$, typical 3.3 V for LIN operation: $U_{LIN} = 8 \dots 18 \text{ V DC}$, typical 12 V
No-load supply current I_0	$\leq 60 \text{ mA}$ at 3.3 V DC $\leq 20 \text{ mA}$ at 12 V DC
Quiescent current indication	$< 3 \mu\text{A}$ during standby mode at UART- and PWM operation
Power consumption P_0	$\leq 250 \text{ mW}$ in the measurement operating mode
Time delay before availability t_v	$\leq 70 \text{ ms}$

Interface 1

Interface type	Physical LIN interface
Transfer rate	19.2 kBit/s (8N1)
Cycle time	55 ms
Resolution	10 mm (corresponding to 1 LSB)

Interface 2

Interface type	UART 3.3V
Transfer rate	19.2 kBit/s (8N1)
Cycle time	55 ms
Resolution	10 mm (corresponding to 1 LSB)

Input

Input type	Standby active
Signal level	low: 0 ... 0.8 V

Output

Output type	PWM output (PNP), not short-circuit protected
Resolution	pulse length 10 μs / cm
Output rated operating current	$\leq 10 \text{ mA}$
Temperature influence	3 % of full-scale value over the entire temperature range

Directive conformity

Electromagnetic compatibility	EN 60947-5-2:2007+A1:2012 : chapter 8.6.2.1, 8.6.2.2, 8.6.3
Directive 2014/30/EU	The sensor is designed to be supplied by a battery. The sensor signals are further processed in a control unit, which is also responsible for EMC protection.

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable L = 276 mm \pm 20 mm with Molex connector 70107-0007, 8-pin
Degree of protection	IP66 / IP67 (connector excluded)
Material	
Housing	PBT
Transducer	epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated
Mass	100 g

Factory settings

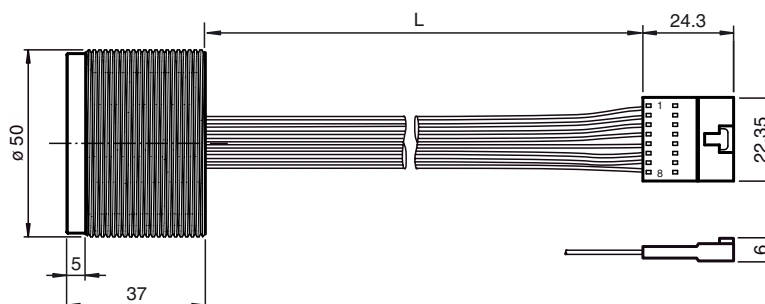
Output	PWM output (PNP)
	Temperature compensation
	Address setting 7

Beam width	wide
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General information

Scope of delivery	2 nuts plastic
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Dimensions





Electrical Connection

