

Ultrasonic Sensor System OHW – Premium

The most advanced ultrasonic sensor system

Object localization functions for enhanced field of application



object localization

for accurate object position feedback

off-highway qualified

hardware with highest protection class and
variable power supply 12/24V

selectable operation mode

enables a wide range of application
possibilities

- ▶ Intelligent object localization through neighboring ultrasound sensors
- ▶ System provides information about object distance and position of up to 20 line and point objects
- ▶ Various possibilities for application and installation oriented performance optimization in distance and object localization mode.
- ▶ Signal filter, multi-channel operation and diagnostic functionalities ensuring a robust operation
- ▶ Scalable system size with 4, 6, 8 or 12 ultra sonic sensors controlled by one single system control unit

TECHNICAL CHARACTERISTICS

Detection range	min	15 cm (Ø 7.5 cm tube)
	max	550 cm (Ø 7.5 cm tube)
Object presence		3 – 15 cm
Detection zone	horizontal:	± 70° @ 3 dB
	vertical:	± 35° @ 3 dB
Ultrasound frequency	modulating	43 to 60 kHz
Sensor output	Distances	2 direct echos + 1 filtered incl. amplitudes
Measurement rate	Sensor	~ 120 – 240 ms
Update cycle	ECU CAN	40 ms
Protection class	ECU	IP6K9
	Sensor	IP6KX, IPX9K
Com. interface	CAN	J1939, CAN ISO 11898
Power supply	ECU	9.3 to 31.8V
Weight	Sensor	~ 14 g
	ECU	~ 381 g
Dimension	Sensor	Ø 23 mm
	ECU	190.7 × 118.3 × 40 mm