

Ultrasonic Sensor System – Premium Safe

Safety for mobile machines



Object localization

for accurate object position feedback

Off-highway qualified

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

EN ISO 13849-1 (PL d /Cat.2)

conform safe distance function

- The safety function comprises the distances detected by the sensors - direct echoes
- 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 with 4, 6, 8, or 12 ultrasonic sensors controlled by one single system control unit

TECHNICAL CHARACTERISTICS

Detection range	min	15 cm (Ø7.5 cm tube)
	max	550 cm (Ø7.5 cm tube)
Detection zone	horizontal	±70° @3dB
	vertical	±35° @3dB
Ultrasound frequency	modulating 43 to 60 kHz	
Sensor output	Distances	2 direct echos + 1 filtered including. 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 31.8 V
Weight	Sensor	~14 g
	ECU	~381 g
Dimension	Sensor	Ø23 mm
	ECU	190.7 x 118.3 x 40 mm