Cylindrical Ultrasonic Sensors

18GS Series
Diffuse Mode Sensors

Common Technical Data

Housing design	cylindrical
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	90 mm
EAC	■
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

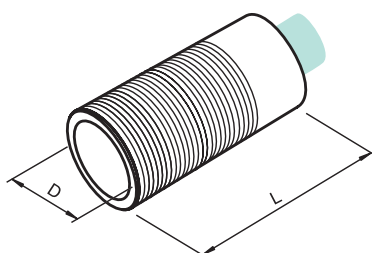| Model Number	Detection Range	Dead Band	Type of Output	Response Time [ms]	Switching Frequency
UC500-18GS-2EP-IO-V15	500 mm	30 mm	IO-Link	20 ms	14 Hz
UC500-18GS-IUEP-IO-V15	500 mm	30 mm	IO-Link, analog voltage output, analog current output	20 ms	14 Hz
UC1000-18GS-2EP-IO-V15	1000 mm	70 mm	IO-Link	28 ms	10 Hz
UC1000-18GS-IUEP-IO-V15	1000 mm	70 mm	IO-Link, analog voltage output, analog current output	28 ms	10 Hz

Highlights

- Application-specific adaptation thanks to versatile functions in one sensor
- Suppression of interfering machine parts for consistent measured values
- Adjustable sound cone for quick adaptation to the application without loss of range
- Automatic sensor synchronization when using multiple sensors in a confined space
- User-friendly programming and parameterization via push-buttons, IrDA interface or IO-Link (DTM/PACTware)

Brief Description

The UB18GS series ultrasonic diffuse mode sensor has proven itself in a multitude of applications. The width of the sound beam can be easily adapted to any detection situation. In addition, the synchronization option avoids cross-talk between sensors that are installed close together, guaranteeing a reliable measurement function.

With features such as echo suppression, adjustable sound beam width, extended synchronization, a very small dead band, IO-Link and infrared interface, and push buttons, the series offers an unprecedented variety of functions and adjustment options in a single device. This gives the user the greatest possible amount of flexibility.

Accessories

AB-18	Mounting aid
BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 connector for sensor connection
OMH-04	Mounting bracket for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm
UC-PROG-IR-USB	Interface cable to parameterize sensors with IrDA interface
UVW90-K18	Ultrasonic deviation reflector