

Cylindrical Ultrasonic Sensors

18GM75 Series Diffuse Mode Sensors



Common Technical Data

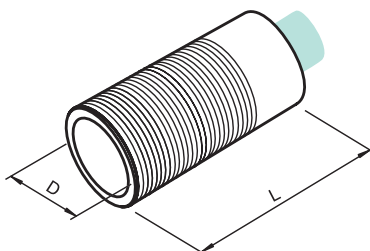
Housing design	cylindrical
Type of voltage	DC
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing diameter D	18 mm
UL	■

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

Model Number	Design	Detection Range	Dead Band	Type of Output	Switching Element Function	Response Time [ms]	Switching Frequency	UB (Min)	Length L	EAC
UB500-18GM75-E01-V15	Straight head	500 mm	30 mm	2 * NPN, NPN	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	
UB500-18GM75-E23-V15	Straight head	500 mm	30 mm	2 * PNP, PNP	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	
UB500-18GM75-E4-V15	Straight head	500 mm	30 mm	NPN	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	
UB500-18GM75-E5-V15	Straight head	500 mm	30 mm	PNP	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	■
UB500-18GM75-E6-V15	Straight head	500 mm	30 mm	2 * PNP, PNP	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	
UB500-18GM75-E7-V15	Straight head	500 mm	30 mm	2 * NPN, NPN	Normally-open/normally-closed (selectable)	50 ms	8 Hz	10 V	85 mm	
UB500-18GM75-I-V15	Straight head	500 mm	30 mm	Analog current output	Analog	50 ms		10 V	85 mm	
UB500-18GM75-U-V15	Straight head	500 mm	30 mm	Analog voltage output	Analog	50 ms		15 V	85 mm	
UB1000-18GM75-E01-V15	Straight head	1000 mm	70 mm	2 * NPN, NPN	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-E23-V15	Straight head	1000 mm	70 mm	2 * PNP, PNP	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-E4-V15	Straight head	1000 mm	70 mm	NPN	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-E5-V15	Straight head	1000 mm	70 mm	PNP	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-E6-V15	Straight head	1000 mm	70 mm	2 * PNP, PNP	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-E7-V15	Straight head	1000 mm	70 mm	2 * NPN, NPN	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	75 mm	
UB1000-18GM75-I-V15	Straight head	1000 mm	70 mm	Analog current output	Analog	125 ms		10 V	75 mm	
UB1000-18GM75-U-V15	Straight head	1000 mm	70 mm	Analog voltage output	Analog	125 ms		15 V	75 mm	
UB1000-18GM75A-E5-V15	Angled head	1000 mm	70 mm	PNP	Normally-open/normally-closed (selectable)	125 ms	3 Hz	10 V	102.5 mm	
UB1000-18GM75A-I-V15	Angled head	1000 mm	70 mm	Analog current output	Analog	125 ms		10 V	102.5 mm	

Highlights

- Different sensing ranges for different object distances
- Adjustable sound beam increases range of possible sensor applications
- Output variability in the series enables a wide variety of automation solutions



Brief Description

The 18GM75 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. The switching of the sound beam is particularly advantageous in tight installation situations or in applications with interfering machine parts in close proximity to the sensor. This means that the width of the sound beam can be easily switched to a narrow setting and reliable detection of the object or level can be ensured.

Accessories

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
M18K-VE	Plastic nuts with centering ring for vibration-decoupled mounting of cylindrical sensors
OMH-04	Mounting bracket for circular profiles \varnothing 12 mm or flat profiles 1.5 mm ... 3 mm