

Cylindrical Ultrasonic Sensors

18GM40 Series

Thru-Beam Sensor and Diffuse Mode Sensor



Common Technical Data

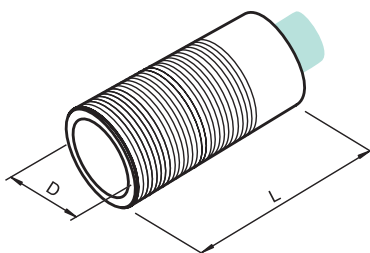
Housing design	cylindrical
Type of voltage	DC
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing diameter D	18 mm
UL	■

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
UB300-18GM40-E4-V1	Straight head	300 mm	35 mm	NPN	Normally-open/normally-closed (selectable)	50 ms	13 Hz	10 V	40 mm	■
UB300-18GM40-E5-V1	Straight head	300 mm	35 mm	PNP	Normally-open/normally-closed (selectable)	50 ms	13 Hz	10 V	40 mm	
UB300-18GM40-I-V1	Straight head	300 mm	35 mm	Analog current output	Analog	50 ms		10 V	40 mm	
UB300-18GM40-U-V1	Straight head	300 mm	35 mm	Analog voltage output	Analog	50 ms		15 V	40 mm	
UB300-18GM40A-E4-V1	Angled head	300 mm	35 mm	NPN	Normally-open/normally-closed (selectable)	50 ms	13 Hz	10 V	57 mm	
UB300-18GM40A-E5-V1	Angled head	300 mm	35 mm	PNP	Normally-open/normally-closed (selectable)	50 ms	13 Hz	10 V	57 mm	
UB300-18GM40A-I-V1	Angled head	300 mm	35 mm	Analog current output	Analog	50 ms		10 V	40 mm	
UB300-18GM40A-U-V1	Angled head	300 mm	35 mm	Analog voltage output	Analog	50 ms		15 V	40 mm	
UB800-18GM40-E4-V1	Straight head	800 mm	50 mm	NPN	Normally-open/normally-closed (selectable)	100 ms	4 Hz	10 V	40 mm	
UB800-18GM40-E5-V1	Straight head	800 mm	50 mm	PNP	Normally-open/normally-closed (selectable)	100 ms	4 Hz	10 V	40 mm	■
UB800-18GM40-I-V1	Straight head	800 mm	50 mm	Analog current output	Analog	100 ms		10 V	40 mm	■
UB800-18GM40-U-V1	Straight head	800 mm	50 mm	Analog voltage output	Analog	100 ms		15 V	40 mm	
UB800-18GM40A-E4-V1	Angled head	800 mm	50 mm	NPN	Normally-open/normally-closed (selectable)	100 ms	4 Hz	10 V	57 mm	
UB800-18GM40A-E5-V1	Angled head	800 mm	50 mm	PNP	Normally-open/normally-closed (selectable)	100 ms	4 Hz	10 V	57 mm	
UB800-18GM40A-I-V1	Angled head	800 mm	50 mm	Analog current output	Analog	100 ms		10 V	57 mm	
UB800-18GM40A-U-V1	Angled head	800 mm	50 mm	Analog voltage output	Analog	100 ms		15 V	57 mm	
UBE1000-18GM40-SE2-V1	Straight head	1000 mm		PNP	Normally-open (NO)		100 Hz	10 V	40 mm	
UBE1000-18GM40A-SE2-V1	Angled head	1000 mm		PNP	Normally-open (NO)		100 Hz	10 V	40 mm	

Highlights

- Wide variety of integration options through special housing design and graduated detection areas
- Different output versions offer flexible solutions for measuring or switching applications
- IP67 degree of protection for maximum reliability and availability under tough operational conditions



Brief Description

The 18GM40 series of thru-beam sensors and diffuse mode sensors provides the ideal solution for tough installation conditions. Their extremely short housing design saves space, while the versions with right-angled ultrasonic transducers offer an additional level of freedom during integration, such as in profiles or angled machine structures. Their application areas are just as demanding and varied: They can count bottles in filling lines, detect containers on waste collection vehicles and detect cars and boats on fair-ground rides.

Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors
M18K-VE	Plastic nuts with centering ring for vibration-decoupled mounting of cylindrical sensors
OMH-04	Mounting aid for circular profile ø 12 mm or flat profile
UB-PROG2	Programming unit
UVW90-K18	Ultrasonic deviation reflector
V1-G-2M-PVC	Single-ended female cordset, M12, straight, A-coded, 4-pin, PVC cable, gray