

## Cylindrical Ultrasonic Sensors

### UB-30GM Series

### Thru-Beam Sensor and Diffuse Mode Sensor



#### Common Technical Data

<b>Design</b>	Straight head
<b>Housing design</b>	cylindrical
<b>Switching element function</b>	Normally-open/normally-closed (selectable)
<b>Type of voltage</b>	DC
<b>Operating voltage (max)</b>	30 V
<b>Connection type</b>	M12 connector plug
<b>UL</b>	■

For detailed data and description, see the datasheet. Further products can be found online at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

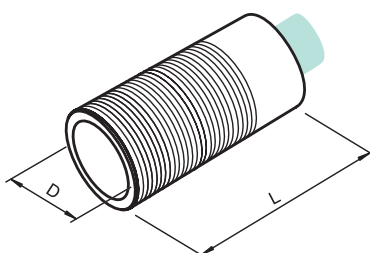
Model Number	Detection Range	Dead Band	Type of Output	Response Time [ms]	Switching Frequency	UB (Min)	Length L	Diameter D	EAC
UB500-30GM-E4-V15	500 mm	30 mm	NPN	50 ms	10 Hz	10 V	94 mm	30 mm	
UB500-30GM-E5-V15	500 mm	30 mm	PNP	50 ms	10 Hz	10 V	94 mm	30 mm	■
UB2000-30GM-E4-V15	2000 mm	80 mm	NPN	150 ms	3.3 Hz	10 V	94 mm	30 mm	
UB2000-30GM-E5-V15	2000 mm	80 mm	PNP	150 ms	3.3 Hz	10 V	94 mm	30 mm	■
UB4000-30GM-E4-V15	4000 mm	200 mm	NPN	325 ms	1.5 Hz	10 V	108 mm	40 mm	
UB4000-30GM-E5-V15	4000 mm	200 mm	PNP	325 ms	1.5 Hz	10 V	108 mm	40 mm	■
UB6000-30GM-E4-V15	6000 mm	350 mm	NPN	650 ms	0.8 Hz	10 V	112 mm	73 mm	
UB6000-30GM-E5-V15	6000 mm	350 mm	PNP	650 ms	0.8 Hz	10 V	112 mm	73 mm	
UBE4000-30GM-SA2-V15	4000 mm		2 * PNP, PNP		15 Hz	18 V	90 mm	40 mm	

#### Highlights

- Sensing ranges in practical graduation for a variety of detection applications
- Synchronization and IP65 degree of protection for outstanding operational reliability
- High degree of vibration resistance for use in harsh and mobile applications

#### Brief Description

The UB-30GM series diffuse mode sensors are easy to adjust via the teach-in input. They can be synchronized to guarantee impressive detection and switching reliability even in installation situations with multiple ultrasonic sensors. The sensors are extremely robust and vibration-resistant, and deliver reliable measurements at all times while resisting interference such as compressed air. The diversity of detection ranges makes this series the ideal solution for monitoring bulk goods in silos of varying sizes, for example.



#### Accessories

<b>BF 30</b>	Mounting adapter, 30 mm
<b>BF 30-F</b>	Plastic mounting adapter, 30 mm
<b>BF 5-30</b>	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
<b>M30K-VE</b>	Plastic nuts with centering ring for vibration-decoupled mounting of cylindrical sensors
<b>UB-PROG2</b>	Programming unit
<b>UVW90-K30</b>	Ultrasonic deviation reflector
<b>UVW90-M30</b>	Ultrasonic deviation reflector
<b>V1-G-2M-PVC</b>	Single-ended female cordset, M12, straight, A-coded, 4-pin, PVC cable, gray