

Cylindrical Ultrasonic Sensors

UC-30GM 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
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 [mm]	Dead Band [mm]	Type of Output	Switching Element Function	Switching Frequency	Length L [mm]	Diameter D [mm]	EAC
UC300-30GM-E6R2-K-V15	Remote head	300	30	2 * PNP, PNP	Normally-open/normally-closed (selectable)	7 Hz	25	18	
UC300-30GM-IUR2-K-V15	Remote head	300	30	Analog current output, analog voltage output	Analog		25	18	
UC300-30GM-IUR2-V15	Straight head	300	15	Analog current output, analog voltage output	Analog		114	30	■
UC500-30GM-E6R2-V15	Straight head	500	30	2 * PNP, PNP	Normally-open/normally-closed (selectable)	7 Hz	94	30	
UC500-30GM-E7R2-V15	Straight head	500	30	2 * NPN, NPN	Normally-open/normally-closed (selectable)	7 Hz	94	30	
UC500-30GM-IUR2-V15	Straight head	500	30	Analog current output, analog voltage output	Analog		114	30	
UC1000-30GM-E6R2-K-V15	Remote head	1000	80	2 * PNP, PNP	Normally-open/normally-closed (selectable)	2.5 Hz	27	30	
UC1000-30GM-IUR2-K-V15	Remote head	1000	80	Analog current output, analog voltage output	Analog		27	30	
UC2000-30GM-E6R2-T-V15	Straight head	2000	80	2 * PNP, PNP	Normally-open/normally-closed (selectable)	2.5 Hz	94	30	
UC2000-30GM-E6R2-V15	Straight head	2000	80	2 * PNP, PNP	Normally-open/normally-closed (selectable)	2.5 Hz	94	30	■
UC2000-30GM-E7R2-V15	Straight head	2000	80	2 * NPN, NPN	Normally-open/normally-closed (selectable)	2.5 Hz	94	30	
UC2000-30GM-IUR2-T-V15	Straight head	2000	80	Analog current output, analog voltage output	Analog		114	30	
UC2000-30GM-IUR2-V15	Straight head	2000	80	Analog current output, analog voltage output	Analog		114	30	■
UC4000-30GM-E6R2-V15	Straight head	4000	200	2 * PNP, PNP	Normally-open/normally-closed (selectable)	1 Hz	108	40	
UC4000-30GM-E7R2-V15	Straight head	4000	200	2 * NPN, NPN	Normally-open/normally-closed (selectable)	1 Hz	108	40	
UC4000-30GM-IUR2-V15	Straight head	4000	200	Analog current output, analog voltage output	Analog		128	40	
UC6000-30GM-E6R2-V15	Straight head	6000	350	2 * PNP, PNP	Normally-open/normally-closed (selectable)	0.5 Hz	112	73	
UC6000-30GM-E7R2-V15	Straight head	6000	350	2 * NPN, NPN	Normally-open/normally-closed (selectable)	0.5 Hz	112	73	
UC6000-30GM-IUR2-V15	Straight head	6000	350	Analog current output, analog voltage output	Analog		132	73	

Highlights

- Comprehensive parameterization for customized sensor adjustment
- Intuitive programming and configuration for easy commissioning
- Variants with offset transducers increase installation flexibility

Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 30	Mounting adapter, 30 mm
BF 30-F	Plastic mounting adapter, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors
M-105	Protective cover
M30K-VE	Plastic nuts with centering ring for vibration-decoupled mounting
OMH-04	Mounting bracket for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm

Brief Description

Due to the variety of parameterization options, the diffuse mode sensors are versatile and can be deployed individually. They are easy to configure via the integrated programming plug. Sensor versions with offset transducers offer an additional level of freedom during machine integration in special installation situations. With these characteristics, they offer an impressive array of potential solutions, such as distance measurement between load-holding equipment and containers in container spreaders prior to pick-up.