





F12 Series Diffuse Mode Sensor



Standard Technical Data	
Design	Cuboid shape
Voltage type	DC
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	41.5 mm
Housing width W	15 mm
Housing height H	49 mm
CSA	•
UL	•

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

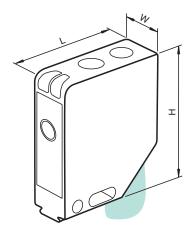
Model number	Detection range [mm]	Dead band	Output type	Switching function	Response delay [ms]	Switching frequen- cy [Hz]	UB (min)
UB120-F12P-EP-V15	150	15	PNP/NPN	Push-pull output	10	50	10
UB250-F12-EP-V15	250	20	PNP/NPN	Push-pull output	20	20	10
UB250-F12-I-V15	250	20	Analog current output	Analog	20		10
UB250-F12-U-V15	250	20	Analog voltage output	Analog	20		12
UB250-F12P-EP-V15	250	20	PNP/NPN	Push-pull output	20	20	10
UB800-F12-EP-V15	800	30	PNP/NPN	Push-pull output	100	6	10
UB800-F12-I-V15	800	30	Analog current output	Analog	100		10
UB800-F12-U-V15	800	30	Analog voltage output	Analog	100		12
UB800-F12P-EP-V15	800	30	PNP/NPN	Push-pull output	100	4	10

Highlights

- Choice of switching output or analog output
- Configuration and operation via potentiometer (F12P) and button on the device
- Sound beam switching for rapid, individual adjustment to the detection application
- Synchronization prevents cross-talk

Brief Description

The ultrasonic diffuse mode sensors in the F12 series are suitable for a wide range of applications and offer special sensor functions. They are available with either a switching output or analog output. The potentiometer and button on the device are used for configuration and operation. The sound beam can be quickly and easily switched between three widths. This also allows measurement in especially narrow feeds such as in bottling machines and vibrating conveyors. Sensors mounted close together can be synchronized autonomously so they do not interrupted by cross-talk. This ensures excellent detection reliability in these applications.



Accessories	
OMH-01	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm 3 mm
OMH-06	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm 3 mm
OMH-K01	Mounting clamp for sensors with dovetail groove
OMH-K02	Mounting clamp for sensors with dovetail groove
OMH-K03	Mounting clamp for sensors with dovetail groove
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
V15-G-2M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable