

12GM Series Diffuse Mode Sensor



Standard Technical Data

Design	Cylindrical
Voltage type	DC
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	70 mm
Housing diameter D	12 mm
UL	■

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

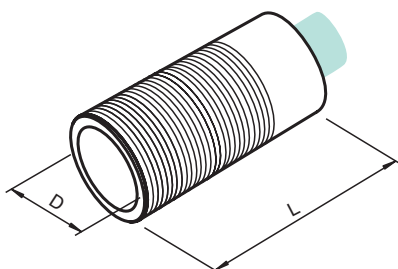
Model number	Detection range [mm]	Dead band	Output type	Switching function	Response delay [ms]	Switching frequency [Hz]	UB (min)
UB120-12GM-E4-V1	120	15	NPN	Normally open/close selectable	9	52	10
UB120-12GM-E5-V1	120	15	PNP	Normally open/close selectable	9	52	10
UB120-12GM-I-V1	120	15	Analog current output	Analog	27		10
UB120-12GM-U-V1	120	15	Analog voltage output	Analog	27		15
UB200-12GM-E4-V1	200	15	NPN	Normally open/close selectable	30	13	10
UB200-12GM-E5-V1	200	15	PNP	Normally open/close selectable	30	13	10
UB200-12GM-I-V1	200	15	Analog current output	Analog	30		10
UB200-12GM-U-V1	200	15	Analog voltage output	Analog	30		15
UB400-12GM-E4-V1	400	30	NPN	Normally open/close selectable	50	8	10
UB400-12GM-E5-V1	400	30	PNP	Normally open/close selectable	50	8	10
UB400-12GM-I-V1	400	30	Analog current output	Analog	50		10
UB400-12GM-U-V1	400	30	Analog voltage output	Analog	50		15

Highlights

- Little space required, small dead band, ideal for tight installation situations
- IP67 degree of protection for excellent availability in harsh environments
- Teach-in process for simple configuration
- Three detection ranges, switching or analog output—the right solution for every requirement

Brief Description

The highly compact cylindrical M12 housing in combination with the extra-small dead band make 12GM series ultrasonic sensors the ideal solution for tight installation situations, e.g., in the ink tanks of printing machines. For applications in harsh environments, the IP67 degree of protection guarantees the ultimate in robust construction and availability. The diffuse mode sensors—available either with switching or analog output—are impressively user-friendly as they can be configured via teach-in.



Accessories

BF 12	Mounting adapter, 12 mm
BF 12-F	Plastic mounting adapter, 12 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
UB-PROG2	Programming unit
UVW90-M12	Ultrasonic deviation reflector
V1-G-2M-PVC	Single-ended female cordset, M12, 4-pin, PVC cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable