

F54 Series

Thru-Beam Sensor and 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	25 mm
Housing width W	105 mm
Housing height H	31 mm
CSA	■
UL	■

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

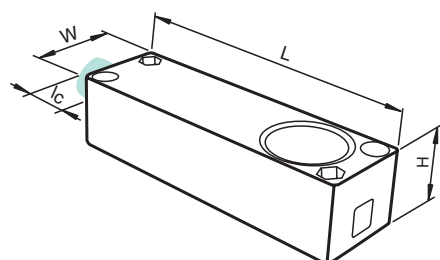
Model number	Detection range [mm]	Dead band	Output type	Switching function	Response delay [ms]	Switching frequency [Hz]	UB (min)	EAC
UB500-F54-E4-V15	500	30	NPN	Normally open/close selectable	50	10	10	
UB500-F54-E5-V15	500	30	PNP	Normally open/close selectable	50	10	10	
UB500-F54-I-V15	500	30	Analog current output	Analog	50		10	
UB500-F54-U-V15	500	30	Analog voltage output	Analog	50		15	■
UB2000-F54-E4-V15	2000	80	NPN	Normally open/close selectable	150	3	10	
UB2000-F54-E5-V15	2000	80	PNP	Normally open/close selectable	150	3	10	
UB2000-F54-I-V15	2000	80	Analog current output	Analog	150		10	
UB2000-F54-U-V15	2000	80	Analog voltage output	Analog	150		15	
UBE15M-F54-H1-V1	15000		Pulse output, NPN				16	
UBE15M-F54-H2-V1	15000		Pulse output, NPN				10	

Highlights

- High measurement density with a detection range of up to 2 m in an especially space-saving housing design
- User-friendly teach-in input
- Highly robust with IP65 degree of protection for excellent availability
- Autonomous sensor synchronization prevents cross-talk between multiple sensors

Brief Description

The F54 diffuse mode sensor really shows its strengths in narrow mounting spaces, while offering synchronization capabilities and a long detection range of up to two meters. The teach-in input makes configuration especially user friendly. The F54 can be used in applications such as bottle return machines and in the detection of roll diameters, for example when handling continuous roll materials such as aluminum, film, and nonwoven fabrics. The sensor continuously detects the diameter and gives the user early warning when the roller falls below the minimum diameter and must be changed.



Accessories

UB-PROG2	Programming unit
V15-G-2M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable