

Capacitive sensors

Capacitive proximity sensors

For level detection of liquids or granules as well as non-conductive objects.

- High switching distance up to 15 mm even through non-metallic walls
- Absolutely reliable even when interfered by ambient conditions, e.g. ambient light or dirt
- Reliable detection even of wafers, PCBs and paper stacks



	CFAM 12	CFAM 18	CFAM 30	CFBM 20
category	cylindrical	cylindrical	cylindrical	rectangular
function				
detection of non-conductive media	■	■	■	■
liquids in direct contact				
fill level detection through container	■	■	■	■
object detection / bulk goods	■	■	■	■
dimensions / height	M12	M18	M30	20 × 35 × 12 mm
housing length	60 mm with cable 76 mm with connector	64 mm with cable 78,4 mm with connector	71 mm with cable 82 mm with connector	35 mm
nominal sensing distance S_n	4 mm	8 mm	15 mm	5 mm
switching frequency	50 Hz	50 Hz	50 Hz	50 Hz
output signal	PNP NPN	PNP NPN	PNP NPN	PNP NPN
connection types	cable 2 m connector M12	cable 2 m connector M12	cable 2 m connector M12	connector M8
housing material	brass nickel plated	brass nickel plated	brass nickel plated	brass nickel plated
operating temperature	-25 ... +75 °C	-25 ... +75 °C	-25 ... +75 °C	-25 ... +75 °C
protection class	IP 65	IP 65	IP 65	IP 65
specific features	■ potentiometer	■ potentiometer	■ potentiometer ■ flush installation	■ fixed switching distance ■ flush installation

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	CFAK 12 with cap	CFAK 12	CFAK 18	CFDK 30	CFDK 25
	cylindrical	cylindrical	cylindrical	rectangular	rectangular flat design
			■	■	
			■	■	■
	■	■	■		
			■	■	
	M12	M12	M18	30 × 65 × 18,5 mm	25 × 52,4 × 6 mm
	39,5 mm	39 mm	63,5 mm		
	0,1 mm	0,5 mm	2 ... 15 mm	4 ... 15 mm	2 ... 15 mm
	15 Hz	15 Hz	50 Hz	50 Hz	35 Hz
	PNP NPN	PNP NPN	PNP NPN	PNP NPN	push-pull
	cable 2 m flylead connector M8	cable 2 m	cable 2 m	cable 2 m connector M12	cable 2 m flylead connector M8
	POM EPDM50	PBT	PBT	PBT	PA 12
	0 ... +50 °C	0 ... +70 °C	-25 ... +75 °C	-25 ... +75 °C	-25 ... +75 °C
	IP 67	IP 67	IP 67 / IP 65	IP 65	IP 65
	■ level sensor for contaminated media		■ potentiometer	■ potentiometer	■ switching distance fix by default ■ mounting flexibility thanks to innovative mounting frame