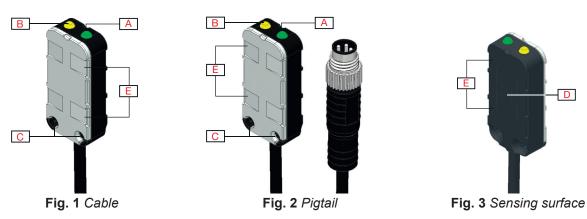


## **Structure**



Element	Component	Function		
Α	LED	Green LED: Power ON		
В	LED	Yellow LED: Output		
С	2 M3	Fixing holes for sensor mounting		
D	Sensing surface			
E	Recessed area for cable strips, max. 5 mm wide			

# Sensing

### Accuracy

Tomporature drift	Factory settings ≤ 20% (-25°C +80°C)		
Temperature drift	Manual teach	≤ 20% (-25°C +60°C)	
	Pipes diameter Min. Ø 8 mm		
	Out of the box: wall thickness With manual setup: wall thickness	Plastic 0.5 - 6 mm (non-conductive plastic wall)	
Detection		Glass 0.5 - 4 mm (non-conductive glass wall)	
		Up to 10 mm plastic wall (best case)	
		Up to 10 mm glass wall (best case)	
Detection liquids	Water-based liquids such as water, milk, syrup, honey, milkshakes, lubricates, acids, alkaline fluids, body fluids and other high-conductive liquids (up to 50 mS)		

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## **Features**



#### **Power Supply**

Rated operational voltage (U <sub>B</sub> )	10 30 VDC (ripple included)	
Ripple (U <sub>rpp</sub> )	≤ 10%	
No load supply current (I <sub>o</sub> )	≤ 13 mA	
Power-ON delay (t,)	< 300 ms	



#### Outputs

Output functions	NPN or PNP by sensor type		
Output switching function	N.O. and N.C by sensor type		
Rated operational current (I <sub>e</sub> )	≤ 100 mA		
OFF-state current(I <sub>r</sub> ) PNP and NPN	50 μΑ		
Voltage drop (U <sub>d</sub> )	< 1.5 V		
Protection	Short circuit, reverse polarity and transients		
Utilization category	DC-1	Control of resistive loads and solid-state loads with optical isolation	
	DC-13	Control of electromagnets	
Load capacitance max at (U <sub>e</sub> )	330 nF		



#### Operation diagram

#### Tv = Power-ON delay

power supply	ON	
Target	Present	
Break output (N.C.)	ON	_Tv
Make output (N.O.)	ON	Tv



#### Response times

Operating frequency (f)	≤ 10 Hz	
Decrease times	≤ 50 ms	OFF-ON (t <sub>on</sub> )
Response times	≤ 50 ms	ON-OFF (t <sub>OFF</sub> )

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