

# Proximity Sensors Capacitive Thermoplastic Polyester Types CB32, ATEX



- Capacitive level sensor for solid, fluid or granulated substances
- Approved according to ATEX directive 94/9/EC for operation in potential explosive dusty atmospheres
- Classified as equipment for use in atmospheres with continuous presence of explosive dust with an ignition temperature above 85° C
- Adjustable sensing distance: 4-20 mm
- With or without adjustable time delay
- Featuring **TRIPLESHIELD™** Sensor Protection
- Protection: Transients and reverse polarity
- 5 years of warranty

## Product Description

ATEX approved Capacitive sensor in thermoplastic polyester for mounting in PG 36 screw gland. Available with adjustable sensing distance and with/without built-in time delay (ON or OFF

delay). The relay output ensures that the load can be driven directly. Excellent for use in the agriculture area (detection of grains, fluids etc.).

## Ordering Key

**CB32CLN20QUAX**

Capacitive proximity switch	_____
Housing diameter (mm)	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Rated operating dist. (mm)	_____
Supply type	_____
Output type	_____
Approval	_____

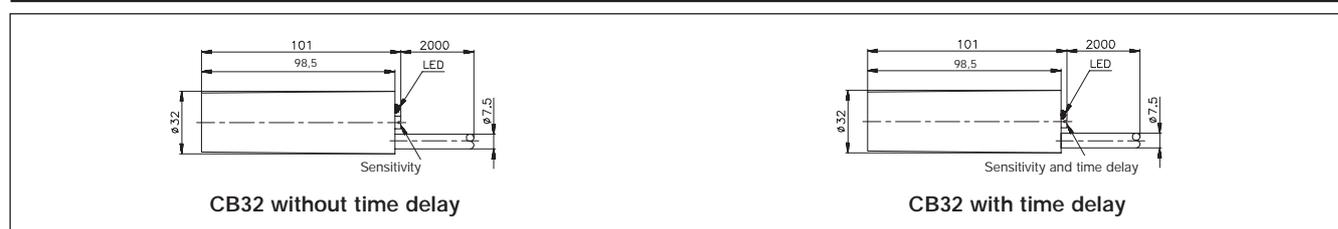
## Type Selection

Supply voltage	Ordering no. With ON delay	Ordering no. With OFF delay	Ordering no. Without time delay
120 VAC 230 VAC 24 VAC/DC	CB32CLN20SUAX CB32CLN20RUAX CB32CLN20QUAX	CB32CLN20SVAX CB32CLN20RVAX CB32CLN20QVAX	CB32CLN20STAX CB32CLN20RTAX CB32CLN20QTAX

## Specifications

<b>Rated operational voltage</b> 120 230 924	120 VAC, 47-63 Hz 230 VAC, 47-63 Hz 24 VAC/DC, 47-63 Hz (VAC)	<b>Housing material</b> Front Backpart Body	PBT Valox TPE Santoprene PBT - Conductive
<b>Consumption</b>	Max. 1,5 W	<b>Cable</b>	PVC, 2 m
<b>Sensing distance</b>	4-20 mm, adjustable	<b>Weight</b>	270 g
<b>Hysteresis</b>	3 to 20% of sensing dist.	<b>Approvals</b>	ATEX zone 20, dust Ⓔ II 1 D T85°C IP67
<b>Operating frequency</b>	5 Hz	<b>CE-marking</b>	Yes
<b>Output</b>	Relay SPDT, 2 A/240 VAC	<b>TRIPLESHIELD™ protection-EMC</b>	
<b>Indication for output ON</b>	LED, yellow	IEC 1000-4-2/EN 61000-4-2	8 kV
<b>Time delay</b> VC11/12RT	1 s - 10 m	IEC 1000-4-3/EN 61000-4-3	> 10 V/m
<b>Environment</b> Degree of protection Operating temperature Storage temperature	IP 67 -20° to +70°C (-4° to +158°F) -40° to +85°C (-40° to +185°F)	IEC 1000-4-4/EN 61000-4-4	2 kV
		IEC 1000-4-6/EN 61000-4-6	> 10 V <sub>rms</sub>

## Dimensions





## Mode of Operation

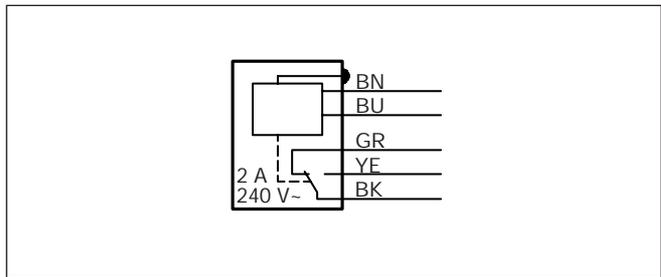
**CB32 with no delay output:**  
The relay operates (connection between black and yellow wires) and remains ON until the sensor is activated. After activation of the sensor, the relay releases and the LED goes ON.

**CB32 with ON-delay output:**  
When the sensor is not activated, the relay operates (connection between black and yellow wires) and the LED is OFF. When the sensor is activated, the time measurement starts and the LED flashes. After expiration of the set time, the relay releases and the LED goes ON. The relay remains

released until the sensor is deactivated.

**CB32 with OFF-delay output:**  
The time measurement starts and the LED flashes when power supply is applied to the sensor. When the set time has expired, the relay operates (connection between black and yellow wires) and the LED goes OFF. When the sensor is activated, the relay releases and the LED goes ON. As soon as the sensor is deactivated, the measurement of the set time starts.

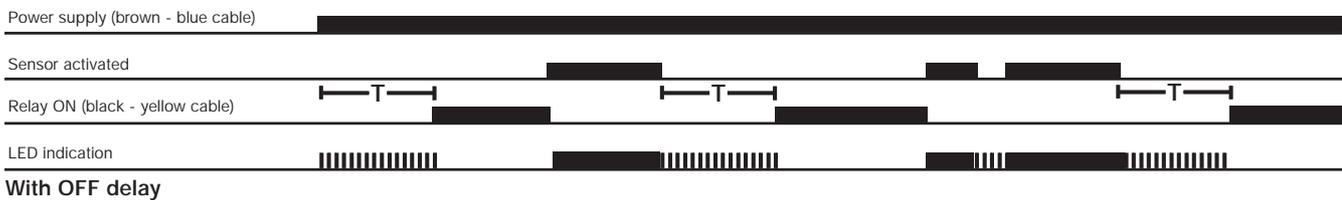
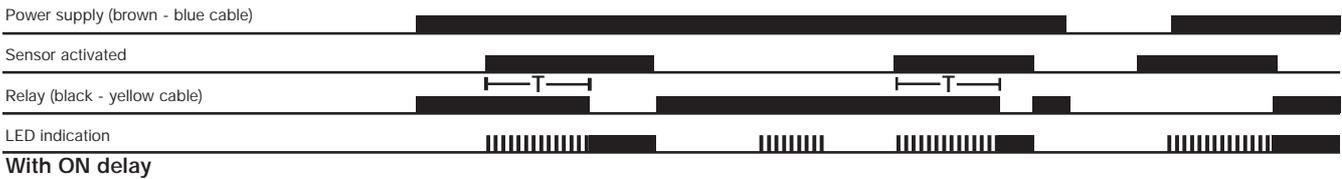
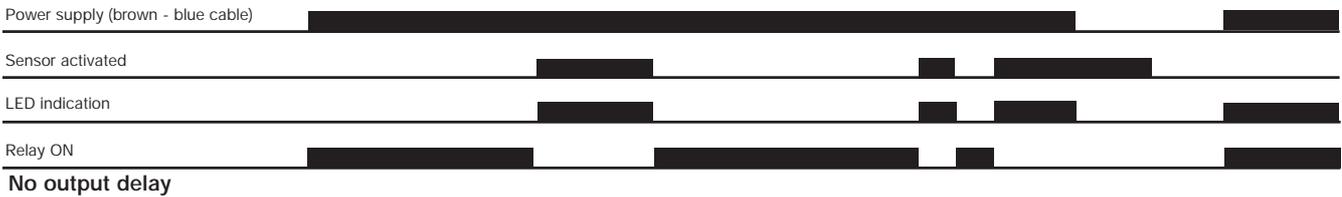
## Wiring Diagram



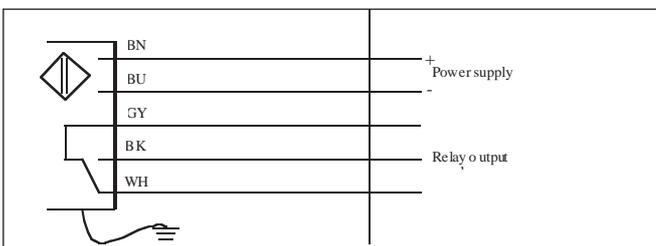
## Adjustment



## Operation Diagrams



## Wiring Diagram



## Delivery Contents

- Capacitive switch: CB32
- Screwdriver
- **Packaging:** Plastic bag
- User manual