CAPTRON Capacitive Switches

Overview

SENSORswitches are capacitive pushbuttons that are activated without pressure, using a hand or other parts of the body. The buttons have a determinate sensing distance, which may be altered by varying the approach speed and/or damping factor. A quickly approaching finger will achieve a higher sensing distance than a slowly approaching finger. A hand, with its larger damping surface, will achieve a greater sensing distance than a finger at the same speed. The sensitivity of the buttons is specified by the electronic circuit and cannot be changed. All sensors are checked for consistent sensitivity values, which have been determined by long-standing experience.



Static - The output signal

Switch Type

- The output signal is continuously on as long as the sensor area is activated.

Dynamic

- The output signal length is limited to x milliseconds when the sensor area is activated.

Toggle

- The output signal turns on when the sensor area is activated and stays on until the sensor area is activated again.

LED Control

Semi-Automatic

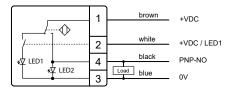
Semi-Automatic (4-Pin) LED1 can be controlled separately. Ideal for when the system designer would like to display a flashing signal to prompt the user to activate and or touch the switch.

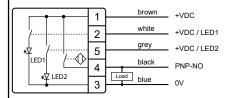
Manual

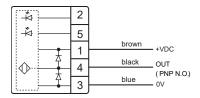
Manual (5-Pin) LED1 and LED2 can be controlled separately. Ideal for use when the user would like to show optical feedback acting like a signal indicator (e.g. CDL series or CML series indicator lights).

Automatic

Automatic (3-Pin) LED1 turns off and the LED2 lights up when the operating surface is touched. Ideal choice for all Human-Machine Interface (HMI) applications that require an intuitive and clearly visible status display.









CAPTRON CANEO Series10 Standard Capacitive Switches







😵 IO-Link

CS10KMLDT-C12-00AE

CS10KMLDT-C20-00BB

CS10KMLDT-B14-054A

		*22mm	Series10) Standard	Capacitiv	e Switche	es		
Part Number	Price	LED Color (Idle/Active)	Switch Type	LED Control	Legend	Symbol Illuminated	Connection	Output Pulse	Drawing Link
<u>CS10KMLDT-C10-00A6</u>	\$59.00	green/red	Dynamic	Semi-automatic	START	Dol	4-pole	Approx. 300ms	PDF
<u>CS10KMLDT-C10-00A7</u>	\$59.00		Static					Continuous when actuated	<u>PDF</u>
<u>CS10KMLDT-C11-0543</u>	\$59.00	red/green	Dynamic		STOP			Approx. 300ms	PDF
<u>CS10KMLDT-C11-0547</u>	\$59.00		Static					Continuous when actuated	<u>PDF</u>
CS10KMLDT-C12-00AE	\$59.00	green/red	Dynamic		ON/OFF Power Symbol START			Approx. 300ms	PDF
CS10KMLDT-C12-00AF	\$59.00		Static					Continuous when actuated	<u>PDF</u>
<u>CS10KMLDT-C12-00B0</u>	\$59.00		Toggle					Toggle	PDF
<u>CS10KMLDT-C16-0548</u>	\$59.00	red/green						Continuous when actuated	PDF
<u>CS10KMLDT-C16-0549</u>	\$59.00	green/red red/green green/red red/green	Static						<u>PDF</u>
CS10KMLDT-C17-00B7	\$59.00		Dynamic					Approx. 300ms	PDF
<u>CS10KMLDT-C17-00B8</u>	\$59.00		Static					Continuous when actuated	<u>PDF</u>
CS10KMLDT-C20-00BB	\$59.00		Dynamic					Approx. 300ms	PDF
CS10KMLDT-C20-00BC	\$59.00			Manual					PDF
CS10KMLDT-C20-00BD	\$59.00		Static	Semi-automatic			4-pole	Continuous when actuated	PDF
CS10KMLDT-C20-00BE	\$59.00			Manual			5-pole		PDF
<u>CS10KMLDT-B10-00C7</u>	\$59.00		Dynamic	Semi- automaticSemi- automatic	START	Yes	4-pole	Approx. 300ms	PDF
<u>CS10KMLDT-B10-00C8</u>	\$59.00		Static					Continuous when actuated	<u>PDF</u>
<u>CS10KMLDT-B11-00C9</u>	\$59.00		Dynamic		STOP			Approx. 300ms	PDF
CS10KMLDT-B11-00CA	\$59.00							Continuous when actuated	PDF
<u>CS10KMLDT-B14-054A</u>	\$59.00		Static		Power Symbol				PDF
<u>CS10KMLDT-B14-054B</u>	\$59.00								PDF

*Purchase cable separately.

22mm Series10 Standard Capacitive Switches									
Part Number	Price	LED Color (Idle/Active)	Switch Type	LED Control	Legend	Symbol Illuminated	Connection	Output Pulse	Drawing Link
CS10KMMDU-B13-092D	\$59.00	blue/off	dynamic	automatic	RESET	Yes	7.87in (200mm) pigtail	Approx. 300ms	PDF
CS10KMMDU-B14-0A5F	\$59.00	green/red	static	semi-automatic	Power Symbol	No		Continuous when actuated	PDF
CS10KMMDU-C20-0793	\$59.00		dynamic		-	Yes		Approx. 300ms	PDF
Note: An additional pigtail connection makes these part numbers distinguishable from other parts in this series.									

CE (SP)

CAPTRON CANEO Series10 Standard Capacitive Switches

22mm Series10 Standard Capacitive Switches Specifications					
Supply Voltage	24VDC [8.4 to 32V]				
Output	PNP-N.O.				
Load Current	Max 200mA				
Current Consumption	Max 40mA @24V				
Operating Temperature	-30 to 65°C [-22 to 149°F]				
Storage Temperature	-30 to 65°C [-22 to 149°F]				
IP Rating	IP69K				
Material	Housing: Polycarbonate (PC) Switch surface: Polycarbonate (PC)				
Weight (lbs)	0.1				
Agency Approvals	CE, CSA				

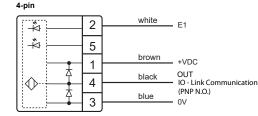
IO-Link Specifications				
IO-Link	v1.1			
Port Speed	COM2			
SIO Supported	Yes			
ISDU Supported	Yes			
Data Storage	Yes			
Block Parameter	No			

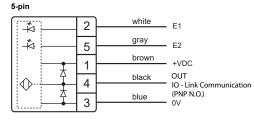
Wiring Diagrams











Safety General safety

All work on electrical systems or operating equipment may only be carried out by a specially qualified electrician according to the applicable electrotechnical regulations.

The safety of the system in which the SENSORswitch is integrated is the responsibility of the operator.



Improper work on electrical systems!

- Electric shock can result in death or life-threatening injuries.
 Before working on electrical systems, disconnect them from their voltage supply and secure them against being switched on again.
- Wear appropriate personal protective equipment (PPE).