

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.



Switch Type

Static

- 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.

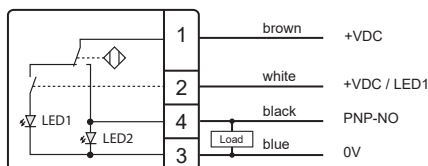
Toggle

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

LED Control

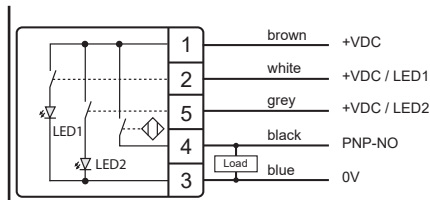
Semi-Automatic

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.



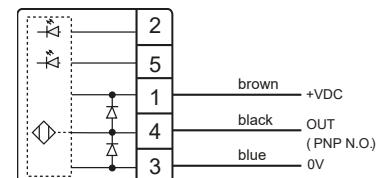
Manual

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.





CANEO Series10 Hygienic Capacitive Switches

Overview

MEETS THE HIGHEST OF HYGIENE STANDARDS AS THE FIRST EHEDG-CERTIFIED SWITCH

The CANEO Series10 Hygienic is the first EHEDG-certified switch (European Hygienic Engineering and Design Group). It also meets FDA requirements, making it perfect for all industries with high requirements for hygienic cleaning, such as the food & beverages and medicine & pharmaceuticals sectors.



CS10HMSDT-C20-030B

CS10HMSDT-B14-0475

*22mm Series10 Hygienic Capacitive Switches											
Part Number	Price	LED Color (Idle/Active)	Switch Type	LED Control	Legend	Symbol Illuminated	Connection (M12)	Output Pulse	Drawing Link		
CS10HMSDT-C10-02F1	\$5gs3:	green/red	Dynamic	Semi-automatic	START	No	4-pole	Approx. 300ms	PDF		
CS10HMSDT-C10-02F2	\$5gs4:		Static					Continuous when actuated	PDF		
CS10HMSDT-C11-054C	\$5gs5:	red/green	Dynamic		STOP			Approx. 300ms	PDF		
CS10HMSDT-C11-054D	\$5gs6:		Static					Continuous when actuated	PDF		
CS10HMSDT-C12-02F9	\$5gs7:	green/red	Dynamic		ON/OFF			Approx. 300ms	PDF		
CS10HMSDT-C12-02FA	\$5gs8:		Static					Continuous when actuated	PDF		
CS10HMSDT-C12-02FB	\$5gs9:		Toggle					Toggle	PDF		
CS10HMSDT-C16-0469	\$5gsa:		Static		Power Symbol			Continuous when actuated	PDF		
CS10HMSDT-C16-054E	\$5gsb:	red/green						Continuous when actuated	PDF		
CS10HMSDT-C17-0306	\$5gsc:	green/red	Dynamic		START		5-pole	Approx. 300ms	PDF		
CS10HMSDT-C17-0307	\$5gsd:		Static					Continuous when actuated	PDF		
CS10HMSDT-C17-030A	\$5gse:		Dynamic	Manual	-			Approx. 300ms	PDF		
CS10HMSDT-C20-030B	\$5gsf:		Static	Semi-automatic				Continuous when actuated	PDF		
CS10HMSDT-C20-020C	\$5gsg:			Manual				Continuous when actuated	PDF		
CS10HMSDT-B10-0314	\$5gsh:		Dynamic	Semi-automatic	START	Yes	4-pole	Approx. 300ms	PDF		
CS10HMSDT-B10-0315	\$-5gsi:		Static					Continuous when actuated	PDF		
CS10HMSDT-B11-0316	\$-5gsj:	red/green	Dynamic		STOP			Approx. 300ms	PDF		
CS10HMSDT-B11-0473	\$5gsk:		Static					Continuous when actuated	PDF		
CS10HMSDT-B14-0475	\$-5gsl:	green/red			Power Symbol			Continuous when actuated	PDF		

22mm Series10 Hygienic Capacitive Switches									
Part Number	Price	LED Color (Idle/Active)	Switch Type	LED Control	Legend	Symbol Illuminated	Connection	Output Pulse	Drawing Link
CS10HMODU-C16-0A60	\$;6ht.:	green/red	Static	Semi-automatic	Power Symbol	Yes	7.87in (200mm) pigtail	Continuous when actuated	PDF
CS10HMODU-C19-0A3F	\$;6ht?:	teal/red		Automatic	RESET	No			PDF
CS10HMODU-C20-0A61	\$;6ht!:	green/red		Semi-automatic	-				PDF
Note: An additional pigtail connection makes these part numbers distinguishable from other parts in this series.									



CANEO Series10 Hygienic Capacitive Switches

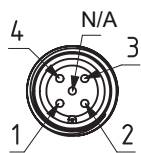
22mm Series10 Hygienic Capacitive Switches Specifications	
Supply Voltage	24VDC [8.4 to 32V]
Output	PNP-N.O.
Load Current	Max 200mA
Current Consumption	Max 40mA @24V
Operating Temperature	-30 to 65°C [-22 to 149°F]
Storage Temperature	-30 to 65°C [-22 to 149°F]
IP Rating	IP69K
Material	Housing: Stainless Steel (V4A) Switch surface: Polycarbonate (PC)
Weight (lbs)	0.1
Agency Approvals	CE, CSA



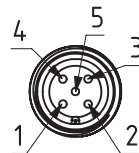
IO-Link Specifications	
IO-Link	v1.1
Port Speed	COM2
SIO Supported	Yes
ISDU Supported	Yes
Data Storage	Yes
Block Parameter	No

Wiring Diagrams

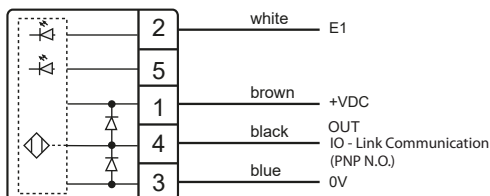
Plug M12, 4-pin



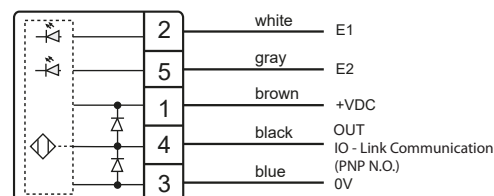
Plug M12, 5-pin



4-pin



5-pin



WARNING



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.
- Work on electrical installations should be carried out only by qualified personnel in compliance with local and national electrical regulations and specifications.

Intended use

The SENSORswitch is intended for use in accordance with the items listed here, the values from the "Technical specifications" chapter and the product description.