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

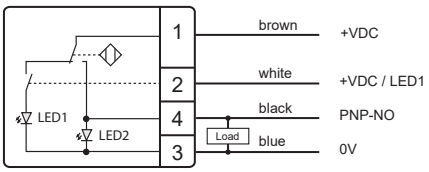
Static
- The output signal is continuously on as long as the sensor area is activated.

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

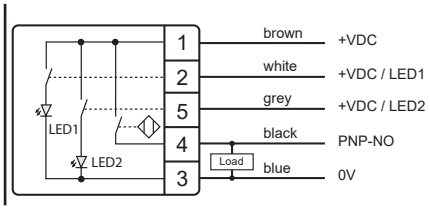
Toggle
- The output signal turns on when the sensor area is activated and stays on until the sensor area is activated again.

LED Control

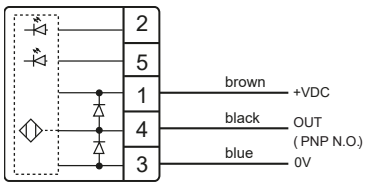
Semi-Automatic
Semi-Automatic (4-Pin) LED1 can be controlled separately. Ideal for when the system designer would like to display a flashing signal to prompt the user to activate and or touch the switch.



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.



CAPTRON

CANEO Series41 and Series40 Standard Capacitive Switches

IO-Link CS41KCRBK-P10-01E7

CS41KCRBK-P11-029F

CS41KCRBK-P20-0253

*22mm Series41 and Series40 Standard Capacitive Switches									
Part Number	Price	LED Color (Idle/Active)	Switch Type	LED Control	Legend	Symbol Illuminated	Connection	Output Pulse	Drawing Link
CS40KMSBN-P20-063A	$159.00	green/red	Dynamic	Automatic	-	No	3-pole	Approx. 300ms	PDF
CS40KMSBN-P10-05BC	$159.00			Semi-automatic	Hand Symbol				PDF
CS41KCRBK-P10-01E7	$142.00			Automatic					PDF
CS41KCRBK-P10-029A	$142.00			Semi-automatic			4-pole		PDF
CS41KCRBK-P10-029B	$142.00			Manual			5-pole		PDF
CS41KCRBK-P11-029F	$142.00			Automatic	Power Symbol		4-pole		PDF
CS41KCRBK-P11-02A0	$142.00			Semi-automatic			4-pole		PDF
CS41KCRBK-P11-02A1	$142.00			Manual			5-pole		PDF
CS41KDMBL-P11-0552	$142.00	red/green		Automatic			3-pole		PDF
CS41KDMBL-P11-0553	$142.00			Semi-automatic			4-pole		PDF
CS41KDMBL-P11-0554	$142.00			Manual			5-pole		PDF
CS41KDMBL-P12-0555	$142.00			Automatic	STOP		3-pole		PDF
CS41KDMBL-P12-0556	$142.00			Semi-automatic			4-pole		PDF
CS41KDMBL-P12-0557	$142.00			Manual			5-pole		PDF
CS41KCRBK-P13-02AB	$142.00	green/red		Automatic	START		3-pole		PDF
CS41KDMBL-P13-0591	$142.00			Semi-automatic			4-pole		PDF
CS41KDMBL-P13-0594	$142.00			Manual			5-pole		PDF
CS41KCRBK-P20-0253	$142.00			Automatic	-		3-pole		PDF
CS41KDMBL-P20-0595	$142.00			Semi-automatic			4-pole		PDF
CS41KDMBL-P20-0596	$142.00			Manual			5-pole		PDF

***Purchase cable separately.**

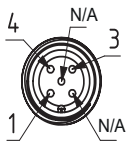
CANEO Series41 and Series40 Standard Capacitive Switches

22mm Series41 and Series40 Standard Capacitive Switches Specifications	
Supply Voltage	24VDC [19.2 to 28.8 V]
Output	PNP-N.O.
Load Current	Max 200mA
Current Consumption	Max 90mA @24V
Operating Temperature	-25 to 50°C [-13 to 122°F]
Storage Temperature	-25 to 50°C [-13 to 122°F]
IP Rating	IP69K
Material	Housing : Polycarbonate (PC) Switch surface Polycarbonate (PC)
Weight (lbs)	0.1
Agency Approvals	CE, CSA

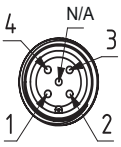
IO-Link Specifications	
IO-Link	v1.1
Port Speed	COM2
SIO Supported	Yes
ISDU Supported	Yes
Data Storage	Yes
Block Parameter	No

Wiring Diagrams

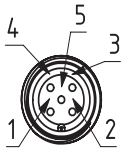
Plug M12, 3-pin



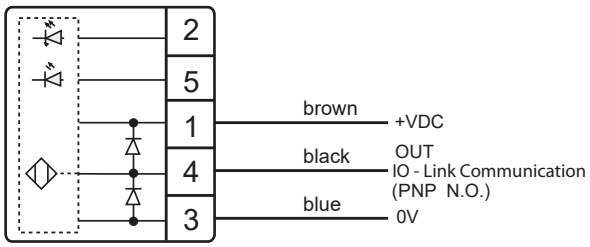
Plug M12, 4-pin



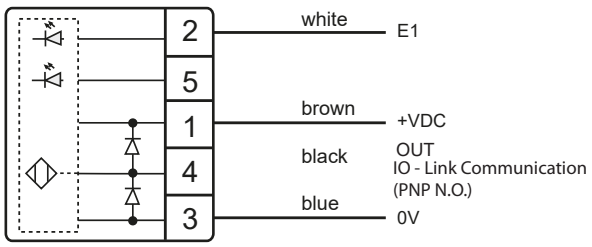
Plug M12, 5-pin



3-pin



4-pin



5-pin