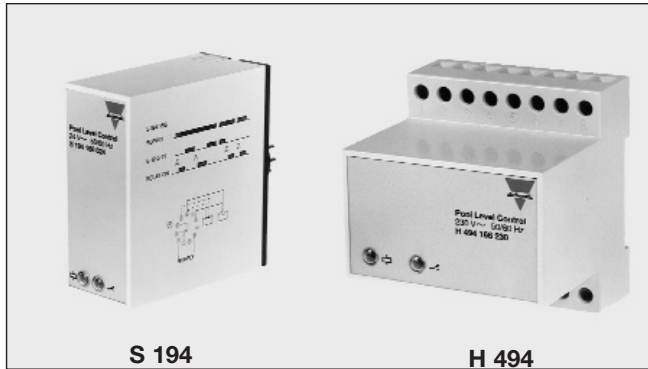


Conductive Sensors Amplifier Types S 194, H 494 (Charging)

CARLO GAVAZZI



- Control of CHARGING (swimming pools)
- S 194 Output: 10 A SPDT relay
- H 494 Output: 8 A DPDT relay
- LED-indications: Power supply and relay ON
- AC power supply

Product Description

Level control relay for conductive liquids for swimming pool applications. The relay operates approx. 10 s

after the sensor is no longer immersed in the water. Amplifier for A94-... sensors.

Ordering Key

S 194 156 024

Housing _____
Type/function _____
Output _____
Power supply _____

Type Selection

Plug	Output	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC
Circular, 11 pin	SPDT	S 194 156 024	S 194 156 115	S 194 156 230
Screw terminals	DPDT	H 494 166 024	H 494 166 115	H 494 166 230

Output Specifications

		S194	H494
Output		SPDT relay	DPDT relay
Rated insulation voltage		250 VAC (rms) (Cont./elec.)	250 VAC (rms) (Cont./elec., cont./cont.)
Contact ratings (Ag-CdO)		μ (micro gap)	μ (micro gap)
Resistive loads	AC 1	10 A/250 VAC (2500 VAC)	8 A/250 VAC (200 VA)
	DC 1	1 A/250 VAC (250 W)	0,4 A/250 VDC (100 W)
	or	10 A/25 VDC (250 W)	4 A/25 VDC (100 W)
Small inductive loads	AC 15	2.5 A/230 VAC	2.5 A/230 VAC
	DC 13	5 A/24 VDC	5 A/24 VDC
Mechanical life		$\geq 5 \times 10^7$ operations	$\geq 30 \times 10^5$ operations
Electrical life		$\geq 10^5$ operations	$\geq 125 \times 10^{16}$ operations
Operation frequency		≤ 7200 operations/h	≤ 7200 operations/h
Insulation voltages			
Rated insulation voltage	AC	≥ 2.0 kVAC (rms) (Cont./elect.)	≥ 2.0 kVAC (rms) (Cont./elect.)
	DC	None	None
Rated impulse withstand voltage	AC	4 kV (1.2/50 μ s) (cont./elect.) (IEC 60664)	4 kV (1.2/50 μ s) (cont./elect.) (IEC 60664)
	DC	800 V	800 V

General Specifications

Indication for		
Power supply ON		
S194		LED, red
H494		LED, green
Output ON		LED, red
Environment		
Degree of protection		IP 20 B
Operating temperature		-20° to +50°C (-4° to +122°F)
Storage temperature		-50° to +85°C (-58° to +185°F)
Connection		
S194		11-pin circular plus
H494		Screw terminals, for mounting on DIN-rail
Material		
Housing	S194	Noryl SE1
	H494	PC/ABS blend
Plug	S194	Nickel-plated brass
	H494	CYCOLOYC 2100
Approvals		UL, CSA
CE-marking		Yes

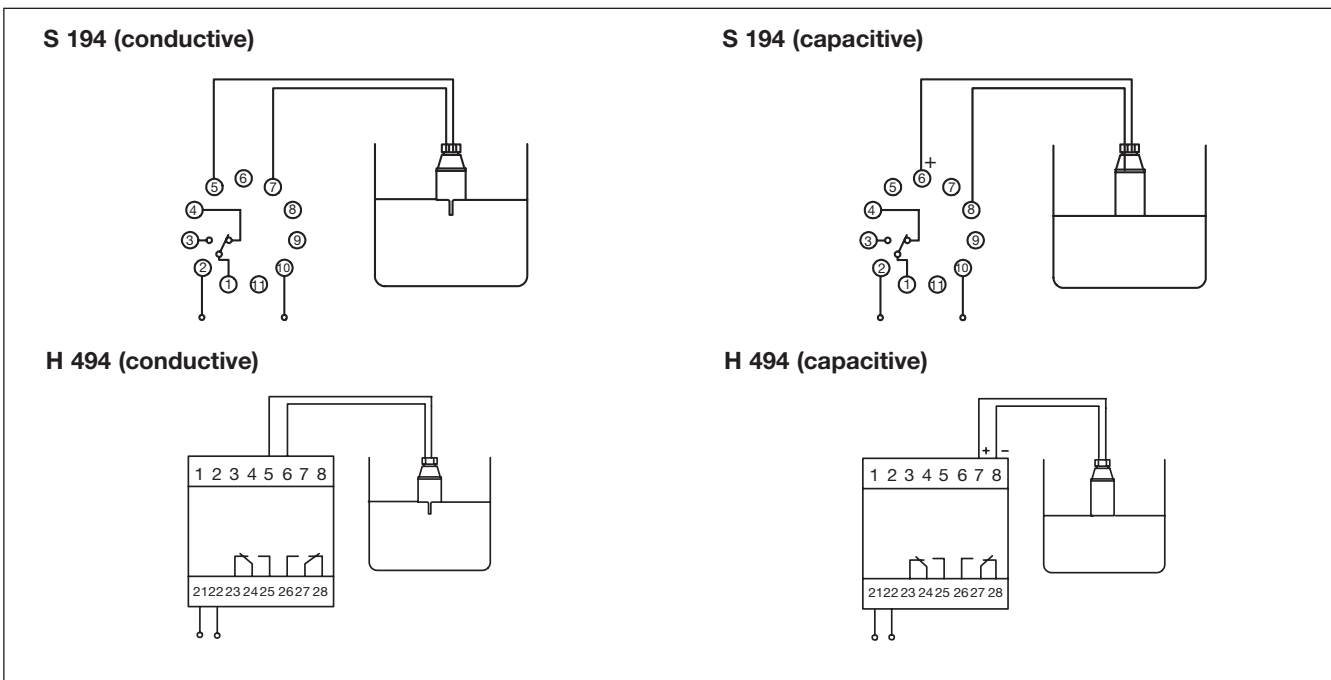
Accessories

Conductive level probe:	A 94-10
Capacitive level probe:	A 94-20

Input Specifications

Sensor type		
Conductive		A 94-10
Capacitive		A 94-20
Sensor voltage current		
Conductive		24 VAC, 2.5 mA
Capacitive		8.2 VAC, max. 8 mA

Wiring Diagrams



Operation Diagram

Conductive/capacitive

- Power supply
- Sensor in water
- Relay ON