

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

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- 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 Screw terminals	SPDT DPDT	S 194 156 024 H 494 166 024	S 194 156 115 H 494 166 115	S 194 156 230 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 DC 1 or	10 A/250 VAC (2500 VAC) 1 A/250 VAC (250 W) 10 A/25 VDC (250 W)	8 A/250 VAC (200 VA) 0,4 A/250 VDC (100 W) 4 A/25 VDC (100 W)
Small inductive loads	AC 15 DC 13	2.5 A/230 VAC 5 A/24 VDC	2.5 A/230 VAC 5 A/24 VDC
Mechanical life		≥ 5 x 10 ⁷ operations	≥ 30 x 10 ⁵ operations
Electrical life		≥ 10 ⁵ operations	≥ 125 x 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 μs) (cont./elect.) (IEC 60664)	4 kV (1.2/50 μs) (cont./elect.) (IEC 60664)
	DC	800 V	800 V



General Specifications

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

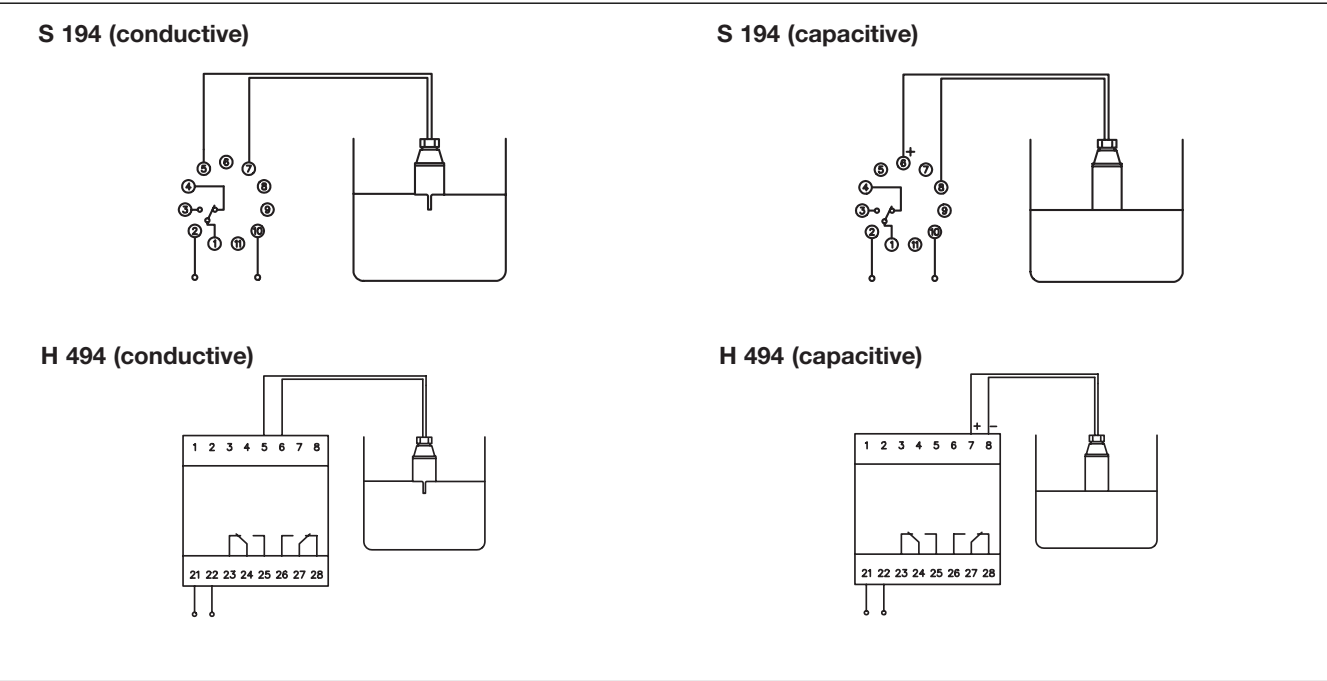
Accessories

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

Input Specifications

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

Wiring Diagrams



Operation Diagram

