

# Level Sensors Amplifier, Conductive/Capacitive 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 Screw terminals	SPDT DPDT	<b>S 194 156 024</b> <b>H 494 166 024</b>	<b>S 194 156 115</b> <b>H 494 166 115</b>	<b>S 194 156 230</b> <b>H 494 166 230</b>

## Output Specifications

		S194	H494
<b>Output</b>		SPDT relay	DPDT relay
Rated insulation voltage		250 VAC (rms) (Cont./elec.)	250 VAC (rms) (Cont./elec., cont./cont.)
<b>Contact ratings</b> (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
<b>Mechanical life</b>		≥ 5 x 10 <sup>7</sup> operations	≥ 30 x 10 <sup>5</sup> operations
<b>Electrical life</b>		≥ 10 <sup>5</sup> operations	≥ 125 x 10 <sup>16</sup> operations
<b>Operation frequency</b>		≤ 7200 operations/h	≤ 7200 operations/h
<b>Insulation voltages</b>			
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

<b>Indication for</b>		
Power supply ON		
S194	LED, red	
H496	LED, green	
Output ON	LED, red	
<b>Environment</b>		
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)	
<b>Connection</b>		
S194	11-pin circular plus	
H496	Screw terminals, for mounting on DIN-rail	
<b>Material</b>		
Housing	S194	Noryl SE1
	H494	PC/ABS blend
Plug	S194	Nickel-plated brass
	H494	CYCOLOYC 2100
<b>Approvals</b>		UL

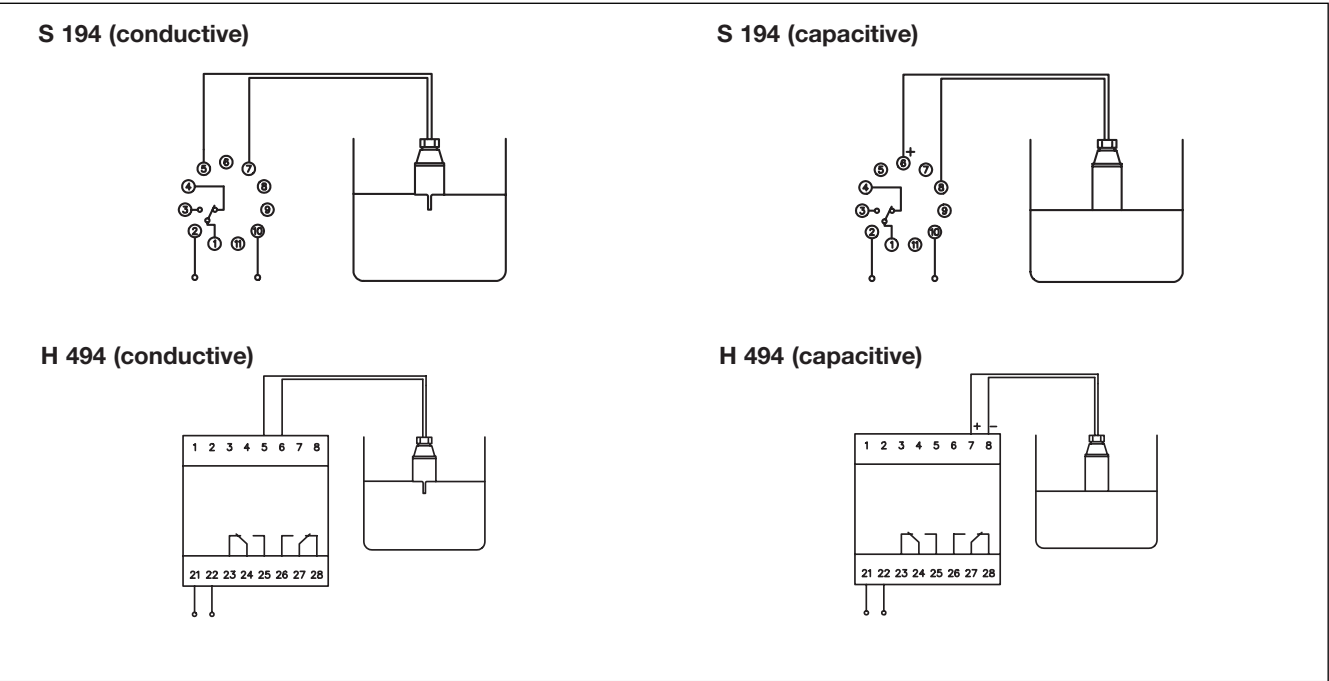
Accessories

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

Input Specifications

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

Wiring Diagrams



Operation Diagram

