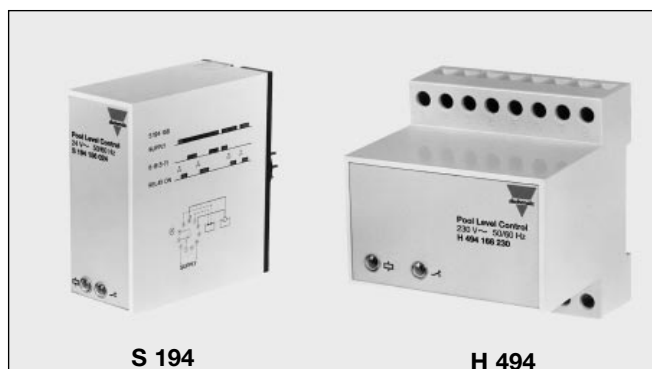


Level Sensors Amplifier, Conductive/Capacitive Types S 194, H 494 (Charging)

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

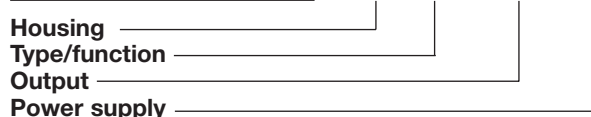
Product Description

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



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		≥ 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	LED, red	
H496	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	
H496	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

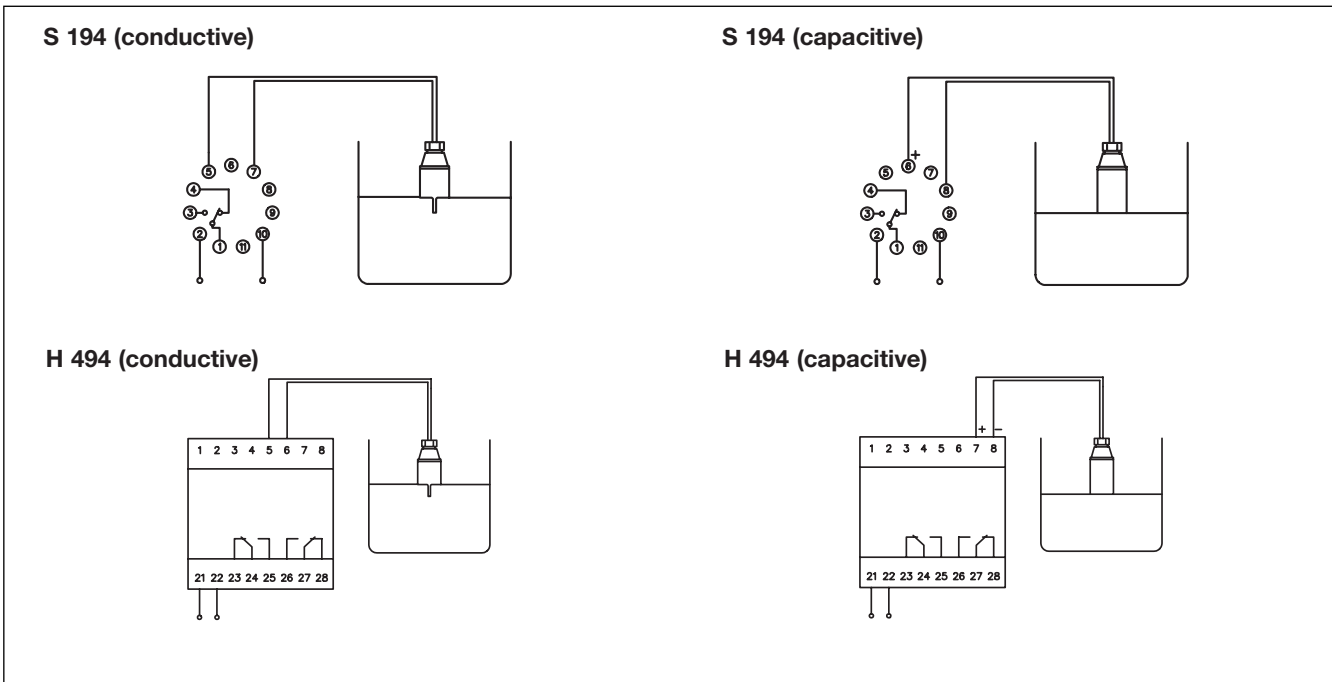
Accessories

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

Input Specifications

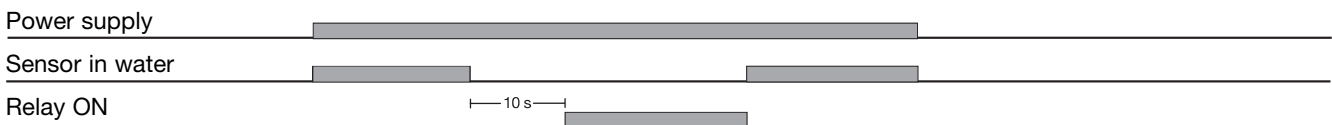
Sensor type		
Conductive		A 94-10
Capacitive		A 94-20
Sensor voltage current		
Conductive		24 VAC, 2.5 mA
Capacitive		8.2 VAC, max. 8 mA

Wiring Diagrams



Operation Diagram

Conductive/capacitive



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