

SELECTION GUIDE

72 SERIES

Level control relays for conductive liquids

Level control relays and float switches
with emptying or filling functions
for conductive liquids and the beverage sector



ABOUT US



Finder was founded in Italy in 1954. Since then it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors. Today, thanks to its global vision, Finder now distributes its products around the world through a network of 29 company-owned subsidiaries and more than 80 trade partnerships. Finder is an international family made up of more than 1300 individuals, all united by the same values and passion for our products.



14,500 different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level and light



OUR PRODUCTS CARRY MORE CERTIFICATIONS THAN ANY OTHER RELAY MANUFACTURER

FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

- 4** PRODUCTION PLANTS IN EUROPE
- 29** SUBSIDIARIES
- +80** OFFICIAL DISTRIBUTORS



ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

Finder considers social and environmental sustainability as fundamental principles of doing business, just as it believes that business growth must develop in synergy with a conscious vision of the future. That is why Finder is committed to reducing and eliminating CO2 emissions, focusing on circularity, caring for its employees to foster a safe, fair and inclusive work environment, spreading a culture of integrity and transparency, and collaborating with stakeholders who share its values.

This focus is demonstrated by the company's commitment to the following internationally recognized projects and certifications:

AUTONOMY AND INDEPENDENCE

Finder's managerial, financial and technological autonomy allows optimal control over all its business processes, the results of which include simplified customs procedures and a high reliability of commercial relations.



Applications everywhere



Residential and commercial sectors

- Level control for pools, fountains and aquariums
- Flood control for laundries and utility rooms
- Submerged pump control



Food

- Condensation control for refrigerated cabinets
- Level control for the beverage sector
- Level control of drinking water tanks



Agriculture

- Level control for irrigation channels and systems
- Level control for water tanks, reservoirs or underground wells
- Level control for sewage tanks or mixing plants



Water treatment and distribution

- Control of filling and emptying of tanks
- Control of emptying and filling functions for treated drinking water
- Level control for sewage treatment plants
- Controlling the supply of hot water heated by solar energy



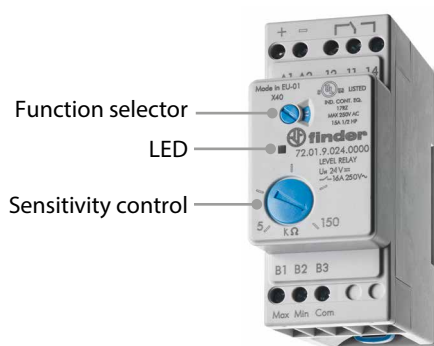
Type 72.01/11

Level control relays for conductive liquids

Are suitable for the level control of conductive liquids.

2 electrodes for control about a single level, or 3 electrodes for control between minimum and maximum limits.

- Emptying or filling functions
- Control about a single level or between Min./Max. limits
- LED indicator, of contact status
- 1 CO (SPDT) 16 A - 250 V AC
- Positive logic output
- Nominal voltage AC or DC
- Special version for low loads down to 5 V, 1 mA
- Reinforced insulation between supply/contacts/electrodes (6 kV - 1.2/50 μ s)
- 35 mm rail (EN 60715) mount



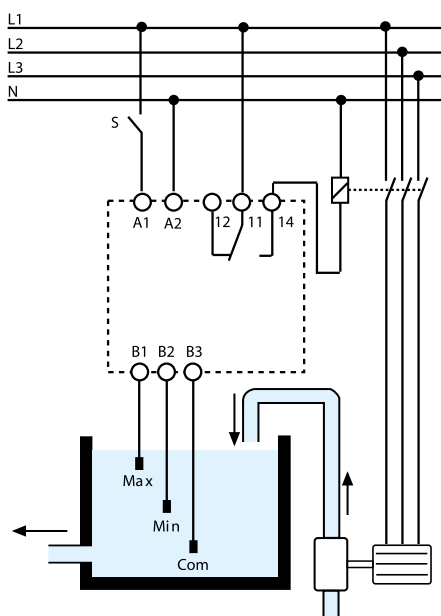
Type 72.01

Type 72.11

Filling function	✓	✓
Emptying function	✓	✓
Sensitivity	5...150 k Ω / 5...450 k Ω (Adjustable)	150 k Ω (Fixed)
Run-on time	0.5 - 7 (selectable)	1 second (Fixed)
LED indicator	✓	✓
Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current	16/30 A	16/30 A
Nominal voltage AC (50/60 Hz)	24, 110...125, 230...240, 400 V	24, 110...125, 230...240 V
Nominal voltage DC	24 V	24 V
Insulation: supply/contacts/electrodes	6 kV	6 kV
Electrical life at rated load	100.000 cycles	100.000 cycles
Ambient temperature	-20...+60°C	-20...+60°C
Functions	FL = Level control by Filling, Long (7 s) run-on delay EL = Level control by Emptying, Long (7 s) run-on delay FS = Level control by Filling, Short (0.5 s) run-on delay ES = Level control by Emptying, Short (0.5 s) run-on delay	F = Level control by Filling, Run-on time fixed at 1 s E = Level control by Emptying, Run-on time fixed at 1 s

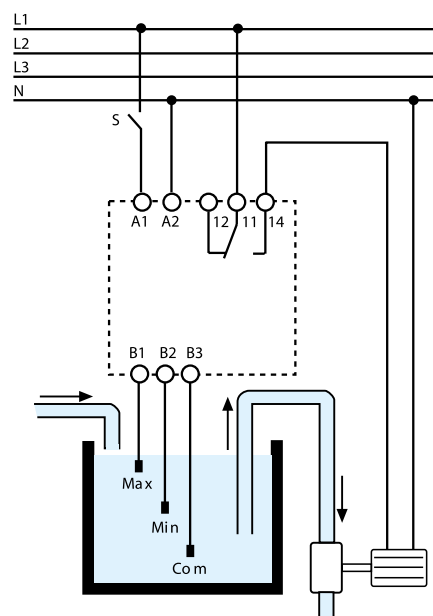
Applications

Filling function (FL/FS)



Examples with 3 electrodes and with
a contactor connected to the contact.

Emptying function (EL/ES)



Examples with 3 electrodes and with
a contactor connected to the contact.

Product code	Description	Nominal voltage
72.01.8.024.0000	Sensitivity range adjustable (5...150)kΩ	24 V AC
72.01.8.024.0002	Sensitivity range adjustable (5...450)kΩ	24 V AC
72.01.8.125.0000	Sensitivity range adjustable (5...150)kΩ	110...125 V AC
72.01.8.240.0000	Sensitivity range adjustable (5...150)kΩ	230...240 V AC
72.01.8.240.0002	Sensitivity range adjustable (5...450)kΩ	230...240 V AC
72.01.8.240.5002	Sensitivity range adjustable (5...450)kΩ, for low loads	230...240 V AC
72.01.8.400.0000	Sensitivity range adjustable (5...150)kΩ	400 V AC
72.01.9.024.0000	Sensitivity range adjustable (5...150)kΩ	24 V DC
72.11.8.024.0000	Sensitivity fixed 150 kΩ	24 V AC
72.11.8.125.0000	Sensitivity fixed 150 kΩ	110...125 V AC
72.11.8.240.0000	Sensitivity fixed 150 kΩ	230...240 V AC
72.11.9.024.0000	Sensitivity fixed 150 kΩ	24 V DC

Type 72.01 and 72.11

Probes and accessories for liquid level control

A wide and diverse range of electrodes allow the Types 72.01 and 72.11 level control relays to work in many diverse applications. Normally 2 electrodes are used for the control about a single level, although 3 probes can be used for level control between “Minimum” and “Maximum” levels. It is possible to use the tank itself as the common electrode (terminal B3), if it is made of a conductive material. If two different levels are required to be set-up within the same tank, it is possible to do this by simply utilising two level control relays.





Type 072.01.06 - Cable length: 6 m (1.5 mm²)

Type 072.01.15 - Cable length: 15 m (1.5 mm²)

Suspended electrode for conductive liquids. Suitable for level monitoring in wells and reservoirs not under pressure. All materials used are compatible with food processing applications.



Type 072.02.06 - Cable length (blue colour): 6 m (1.5 mm²)

Suspended electrode for swimming pools with high levels of chlorine, or in salt-water pools with high levels of salinity.

High quality electrode material: stainless steel (AISI 316L) with high corrosion resistance.
Max. liquid temperature +100°C.



Type 072.41

Suspended electrode for wells and tanks.

High quality electrode material: stainless steel (AISI 316L) with high corrosion resistance.

Plastic parts made of polypropylene for good resistance to aqueous solutions of inorganic salts, acids, alkaline solutions, alcohol, some oils and washing solutions.

Physiologically harmless and therefore particularly suitable for use in the food and pharmaceutical sectors.
Max. liquid temperature +80°C.



Type 072.51

Electrode holder suitable for metal tank with G3/8" fitting. The tank can be used as the common electrode and electrically wired to the common terminal B3 of the 72.01 / 11 relay by utilising the threaded part and fixing nut as a terminating point. The total length of the probe is obtained by connecting an appropriate number of 072.500 electrodes. High quality electrode material: stainless steel (AISI 316L) with high corrosion resistance.
Max. liquid temperature +100°C.



Type 072.53

Electrode holder with three poles, for overhead mounting in wells and tanks.

The total length of the probes is obtained by connecting an appropriate number of 072.500 electrodes.

High quality electrode material: stainless steel (AISI 303) with high corrosion resistance.
Max. liquid temperature +70°C.



Type 072.503

Electrode separator (for three pole electrode holder 072.53).

Use to avoid electrodes touching where otherwise they might sway due to their length.



Type 072.500 - Electrode - 475 mm long, M4 thread, stainless steel (AISI 316L)

Type 072.501 - electrode connector, M4 thread, stainless steel (AISI 316L).

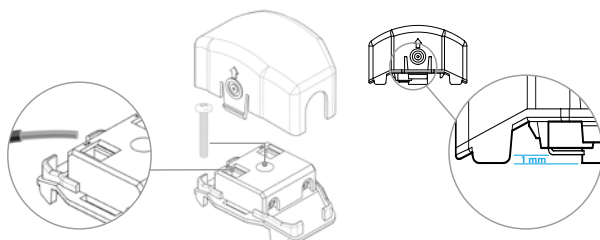
Multiple electrodes may be interconnected to provide required length.

Illustration of interconnection of electrodes.



Type 072.11

Floor water sensor, flood warning. Designed for the detection and signalling of the presence of floor surface water and for the detection of condensation (for example in refrigerated cabinets).





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FINDER RELAYS, INC.
4191 Capital View Drive, Suwanee, GA 30024 - U.S.A.
(770) 271-4431
sales@finder-us.com

finder-us.com

