

Amplifiers to connect on conductive probes for Ex-area

Description

The electrode relay ExSRA-100-U0 works in conjunction with conductive probes as a level limit switch or a control in conductive liquids such as water, alkalis and acids. While a low voltage according to VDE 0100 Section 410 stands at the electrodes of about 9V, thereby touching the probes is completely safe.

As soon as the electrically conductive filling builds a connection between mass and eg the maximum electrode, a small alternating current flows which is implemented in the evaluation in a relay output.

As mass with metal vessel the wall of the vessel can be used, or an electrode with non-metallic container. The use of AC avoids the corrosion of the probe rods and electrolytic destruction of the product.

The device can be used with latching relay, Min and Max switching point work, as well as a double level detectors, with two separate outputs.

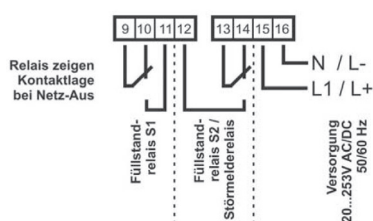
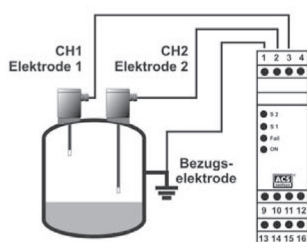
As a result, the number of applications, such as overflow, dry run protection, two-point control, moisture detection, etc. can be realized.

Via a coarse and fine tuning the sensitivity can be adjusted on the conductivity of the liquid. With the adjustable trigger delay to approximately 8 seconds, possibly undulations in the container are hidden.

As further details the SRA-100-U0 offers a line break monitoring with fault relay and a wide range power supply of 20 ... 253V AC / DC.



Connection



Order code

ExSRA-100-U0/20...253 V AC/DC

Special measuring range
Special measuring range

Electrode relay, 22,5 mm, 2 Wechsler,
ATEX II (1) G [Ex ia Ga] IIB/IIC resp.
ATEX II (1) D [Ex ia Da] IIIB/IIIC

0-1 MegaOhm
0-8 MegaOhm

Technical

Technical	
Permitted supply voltage:	20...253 V AC / 20...125V DC
Consumption:	483,5 VA
Isolation:	4 kV
Control voltage:	0...253 V AC; I~ auxiliary power against relay outputs against signal inputs
Rated current:	0...10 A AC; I~ maximal 10 A AC; P~ maximal 250 V AC; I~
Measurement range:	0...253 V AC; I~ maximal 10 A AC; P~ maximal 250 V AC; I~
Monitoring:	0...253 V AC; I~ maximal 10 A AC; P~ maximal 250 V AC; I~
Dimensions:	0...253 V AC; I~ maximal 10 A AC; P~ maximal 250 V AC; I~

Specials



AC/DC



Line break detection

adjustable sensitivity

multifunction



certification

PRC Technologies Corp., Ltd. ลาดพร้าว 101 กรุงเทพฯ 10240

โทรศัพท์ : 02 530 1714, 02 932 1711 มือถือ : 086 360 8600

อีเมล : contact@prctech.net LINE ID1 : prctec-info, LINE ID2 : @prct