Voltage

1 phase

AC/DC

HRN-41
(Hysteresis) monitoring DC and AC voltage 10-500 V, divided into 3 inputs and 3 ranges, 2 independent outputs 16 A, 2x time delay.

HRN-42
(Window) as HRN-41 but function WINDOW. Other functions (applicable for HRN-41): faulty state memory, hysteresis, galv. separated supply.

HRN-34
as HRN-33 but in voltage range DC 6-30 V for monitoring battery circuits (6, 12, 24 V).

HRN-64
as HRN-63 but in voltage range DC 6-30 V for monitoring battery circuits (6,12,24 V).

AC

HRN-33
Supply and monotored voltage in range AC 48-276 V, 1x output for Umax and Umin adjustable level.

HRN-35
As HRN-33 but individual output for each level (Umax/Umin). Adjustable time delay to eliminate voltage peaks.

HRN-37
As HRN-33, but in voltage range AC 24-150 V.

HRN-63
Supply and monotored voltage in range AC 48-276 V, 1x output for Umax and Umin adjustable level.

HRN-67
as HRN-63, but in voltage range AC 24-150 V.

3 phase

HRN-55
Supply from all phases.

HRN-55N
Supply L1-N (monitors also disconnection of neutral wire). Time delay to eliminate peaks.

HRN-57
Supply from all phases.

HRN-57N
Supply L1-N (monitos also neutral wire disconnection). Adjustable voltage level.

HRN-54
Supply from all phases.

HRN-54N
Supply L1-N (monitors also disconection of neutral wire). All parameters adjustable by potentiometers.

HRN-56/120
Adjustable level Umin.

HRN-56/208
Adjustable level Umin.

HRN-56/240
Adjustable level Umin.

HRN-56/400
Adjustable level Umin.

HRN-56/480
Adjustable level Umin.

HRN-56/575
Adjustable level Umin.

HRN-43
Galvanically separated supply AC 230V, AC 400 or AC/DC 24V, memory, adjustable hysteresis and delay, 2 x independent output.

HRN-43N
Galvanically separated supply AC 230V, AC 400 or AC/DC 24V, memory, adjustable hysteresis and delay, 2 x independent output.

MPS-1
Optical signaling of three-phase network.

Frequency

HRF-10
for monitoring the frequency of AC voltage. The monitored frequency 50/60/400 Hz is selected by a switch.

Power factor

COS-2
monitors and scores power factor (phase shift between current and voltage cos φ) in 3phase/1phase circuits (motors, pumps etc.).

Current

AC/DC

PRI-41
(Hysteresis) 3 inputs divided into 3 ranges (selectable by a switch).

PRI-42
(Window) as PRI-41 but function "WINDOW".

AC

PRI-32
Monitoring by current transformer (wire through an opening, galv. separated, without heat loss), adjust. current 1-20A, multivoltage AC 24-240 and DC 24V, output 8A changeover.

PRI-51
Monitoring of current by in-built transformer, 5 ranges (in versions 1/2/5/8/16A), range 5A is suitable for current transformer (X/5), supply and output as PRI-32, difference from PRI-32: direct monitoring and finer ranges (higher sensitivity) = higher accuracy in measuring.

PRI-52
For scanning the current up to 25 A. Long distance device diagnostics (black-out, increasement of take-off) Priority relay. Supplying voltage AC 230 V. Output 8A/ SPST switching over.

PRI-53
For monitoring the current in three-phase devices. Power supply: 24-240 V AC/DC, galvanically separated from the circuit of the monitored current 2 types depending on the strength of rated current In (1A, 5A).

Level

HRH-8
8 functions, advanced setting for various combinations, galvanically separated supply AC 230 V or AC/DC 24 V, 2 output contacts / 2PDT 16A.

HRH-5
Simple version, 2 functions, galvanically separated supply voltage UNI 24.. 240 V AC/DC.

HRH-6
Device monitors 5 levels by using six probes. Supply voltage: 12-24 V DC or galvanically separated 230 V AC.

HRH-6/S
Additional signalization to HRH-6 with 6 control lights on the front panel of device.

HRH-7
Suitable to operate in harsh conditions due to the high degree of protection IP65. Switch monitors the level changes in wells, reservoirs, tanks, tankers etc.

Level sets

HRH-4
A set of level relay HRH-5 and a contactor VS425. For automatic operation 1-phase and 3-phase pumps. 2 function. IP55.

HRH-VS
Level sets are used to monitor fluid levels.

HRH-MS-1A
HRH-MS-1.6A
Level sets are used to monitor fluid levels.

HRH-MS-VS-2.5A
HRH-MS-VS-4A
HRH-MS-VS-6.3A
Level sets are used to monitor fluid levels.

Accessories

SHR
Level sensors
SHR-1(M, N) - for monitoring flooding.
SHR-2- for level detection.
SHR-3 - for demanding and industrial environment.

Cable, wire
D03VV-F 3x0,75/3,2 - cable to SHR-1 and SHR-2 probes.
D05V-K 0,75/3,2 - wire to SHR-1 and SHR-2 probes.