

Ultrasonic proximity sensors

UNAR 18P6903/S14G

dimension drawing



general data

| | |
|------------------------------|----------------------------|
| special type | chemically robust |
| scanning range Sd | 100 ... 1000 mm |
| scanning range far limit Sde | 100 ... 1000 mm |
| hysteresis typ. | 4 % Sde |
| repeat accuracy | < 0,5 mm |
| temperature drift | < 0,18 % Sde/K |
| response time ton | < 50 ms |
| release time toff | < 50 ms |
| sonic frequency | 240 kHz |
| adjustment | Teach-in |
| alignment aid | target indication flashing |
| output indicator | LED green |
| approvals/certificates | Ecolab |

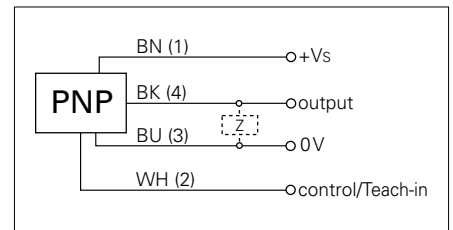
photo



electrical data

| | |
|------------------------------------|------------------------|
| voltage supply range +Vs | 12 ... 30 VDC |
| current consumption max. (no load) | 35 mA |
| output circuit | PNP make function (NO) |
| output current | < 200 mA |
| voltage drop Vd | < 2 VDC |
| residual ripple | < 10 % Vs |
| short circuit protection | yes |
| reverse polarity protection | yes |

connection diagram



mechanical data

| | |
|--|------------------------------|
| type | cylindrical threaded |
| housing material | stainless steel 1.4435 (V4A) |
| coating active face | Parylene |
| material O-ring | FFKM |
| front of sensor durable against pressure | 6 bar, 20'000 cycle |
| width / diameter | 18 mm |
| height / length | 91,5 mm |
| connection types | connector M12 |

ambient conditions

| | |
|-----------------------|--------------|
| operating temperature | 0 ... +60 °C |
| protection class | IP 67 |



- internal and external Teach-in
- chemically robust version

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typical sonic cone profile

