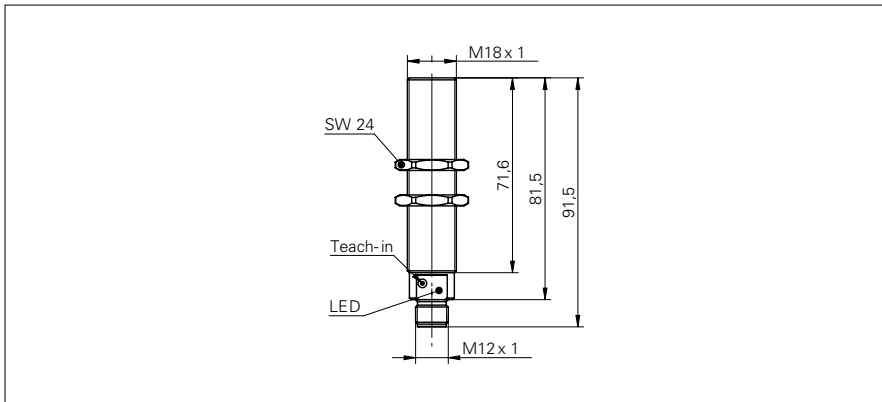


**Ultrasonic proximity sensors**

**UNAR 18P6912/S14G**

**dimension drawing**



**general data**

|                              |                            |
|------------------------------|----------------------------|
| special type                 | chemically robust          |
| scanning range Sd            | 60 ... 400 mm              |
| scanning range far limit Sde | 60 ... 400 mm              |
| hysteresis typ.              | 4 % Sde                    |
| repeat accuracy              | < 0,5 mm                   |
| temperature drift            | < 0,18 % Sde/K             |
| response time ton            | < 25 ms                    |
| release time toff            | < 25 ms                    |
| sonic frequency              | 400 kHz                    |
| adjustment                   | Teach-in                   |
| alignment aid                | target indication flashing |
| output indicator             | LED green                  |
| approvals/certificates       | Ecolab                     |

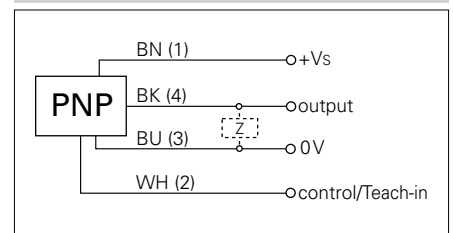
**photo**



**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

# Ultrasonic proximity sensors

# UNAR 18P6912/S14G

typical sonic cone profile

