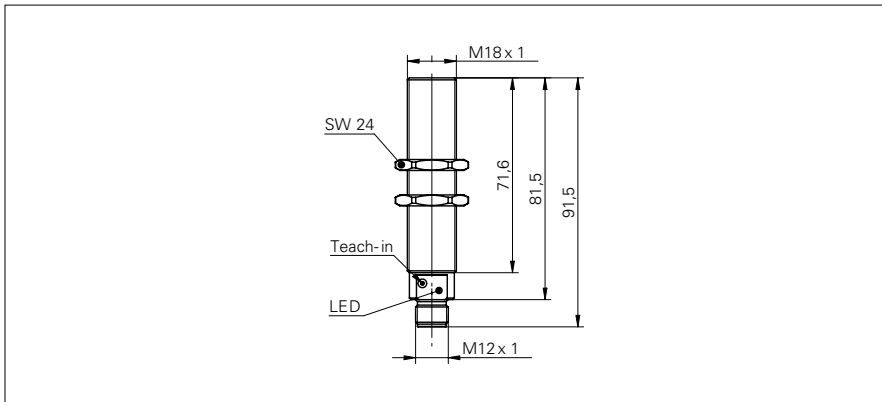


# Ultrasonic distance measuring sensors

## UNAR 18I6912/S14G

### dimension drawing



### general data

|                                |                                |
|--------------------------------|--------------------------------|
| special type                   | chemically resistant           |
| scanning range sd              | 60 ... 400 mm                  |
| scanning range close limit Sdc | 60 ... 400 mm                  |
| scanning range far limit Sde   | 60 ... 400 mm                  |
| repeat accuracy                | < 0,5 mm                       |
| resolution                     | < 0,3 mm                       |
| response time ton              | < 60 ms                        |
| release time toff              | < 60 ms                        |
| temperature drift              | < 2 % of distance to target So |
| sonic frequency                | 400 kHz                        |
| adjustment                     | Teach-in                       |
| alignment aid                  | target indication flashing     |
| light indicator                | yellow LED / red LED           |

### electrical data

|                                    |                           |
|------------------------------------|---------------------------|
| voltage supply range +Vs           | 15 ... 30 VDC             |
| current consumption max. (no load) | 55 mA                     |
| output circuit                     | current output            |
| output signal                      | 4 ... 20 mA / 20 ... 4 mA |
| output current                     | < 20 mA                   |
| load resistance +Vs max.           | < 1100 Ohm                |
| load resistance +Vs min.           | < 400 Ohm                 |
| residual ripple                    | < 10 % Vs                 |
| short circuit protection           | yes                       |
| reverse polarity protection        | yes                       |

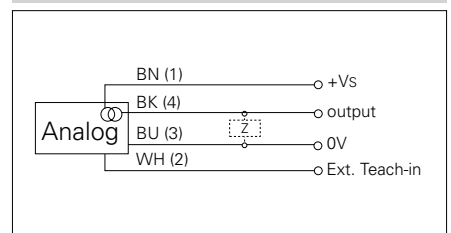
### mechanical data

|                                          |                              |
|------------------------------------------|------------------------------|
| 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                |

### photo



### connection diagram



- internal and external Teach-in
- chemically resistant version

## Ultrasonic distance measuring sensors

## UNAR 18I6912/S14G

### ambient conditions

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