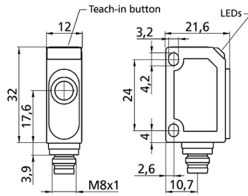
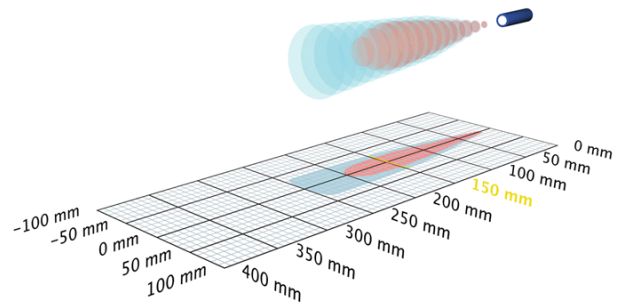


ZWS-15/CE/QS

scale drawing



detection zone



1 x npn



250 mm

| | |
|-----------------|---|
| operating range | 20 - 250 mm |
| design | cuboidal |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | small cuboidal design narrow sound field |

ultrasonic -specific

| | |
|--------------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 20 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution/sampling rate | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-------------------------|---|
| operating voltage U_B | 20 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| Leerlaufstromaufnahme | ≤ 25 mA |
| type of connection | 4-pin M8 initiator plug |

ZWS-15/CE/QS

outputs

| | |
|-----------------------------|---|
| output 1 | switching output npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) NOC/NCC adjustable, short-circuit-proof |
| switching hysteresis | 2.0 mm |
| switching frequency | 25 Hz |
| response time | 24 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|-------------|---|
| description | external synchronisation from rectangular signal with a defined pulse width |
| input 1 | synchronisation input |

housing

| | |
|---------------------------------|--|
| material | ABS |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 10 g |

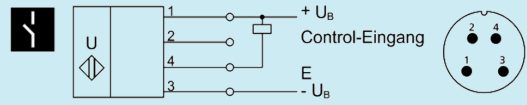
technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | 1 push-button |
| scope for settings | Teach-in via push-button |
| Synchronisation | yes |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | small cuboidal design narrow sound field |

zws-15/CE/QS

[documentation \(download\)](#)

pin assignment



order no.

zws-15/CE/QS