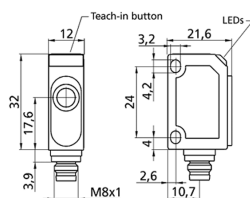


# ZWS-7/CE/QS

## scale drawing



## detection zone



1 x npn



100 mm

operating range	20 - 100 mm
design	cuboidal
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	250 Hz switching frequency 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	70 mm
maximum range	100 mm
resolution/sampling rate	0.08 mm
reproducibility	$\pm 0.15 \%$
accuracy	temperature drift 0.17 %/K

## electrical data

operating voltage $U_B$	20 - 30 V d.c., reverse polarity protection
voltage ripple	$\pm 10 \%$
Leerlaufstromaufnahme	$\leq 30$ mA
type of connection	4-pin M8 initiator plug

# ZWS-7/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	250 Hz
response time	3 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

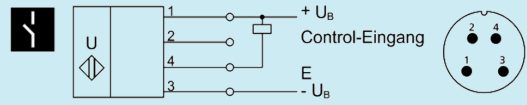
## technical features/characteristics

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	250 Hz switching frequency small cuboidal design narrow sound field

# zws-7/CE/QS

[documentation \(download\)](#)

## pin assignment



order no.

**zws-7/CE/QS**