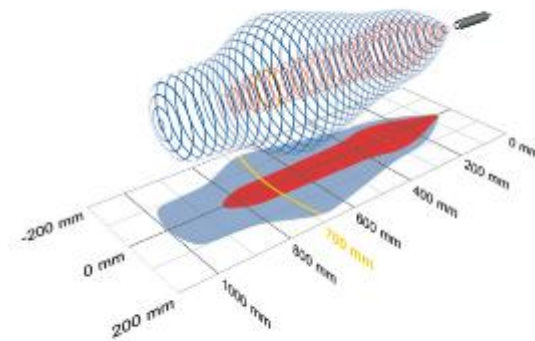
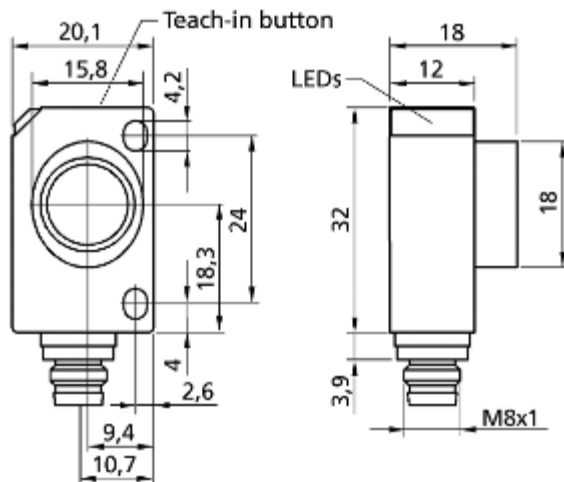


## zws-70/CD/QS

€ mark for sensor comparison

housing    detection zone



1 x pnp1,000 mm

operating range	120 - 700 mm
design	colloidal
operating mode	proximity switch/reflective mode reflective barrier window mode
<b>ultrasonic -specific</b>	
means of measurement	echo propagation time
transducer frequency	300 kHz
blind zone	120 mm
operating range	700 mm
maximum range	1,000 mm
angle of beam spread	please see graphics detection zone
resolution/sampling rate	0.20 mm
reproducibility	± 0.15 %
accuracy	temperature 0.17 %/K
<b>electrical data</b>	
operating voltage $U_B$	20 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 30 mA
type of connection	4-pin M8 initiator plug

### outputs

output 1	switching output pnp: $I_{\max} = 200 \text{ mA}$ ( $U_B = 2V$ ) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	2.0 mm
switching frequency	14 Hz
response time	42 ms
delay prior to availability	< 300 ms

## inputs

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

## 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

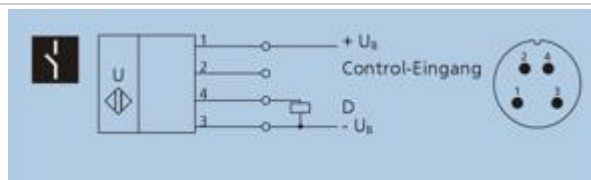
## technical features/characteristics

temperature compensation	no
controls	1 pushbutton
scope for settings	teach-in
synchronization	yes
multiplex	no
indicators	1 x LED green: working, 1 x LED yellow: switch status
particularities	small colloidal type

## documentation & accessories

user's manual	<a href="#">BA_ENG_zws-xxxCD.pdf</a>
STEP	<a href="#">zws-70_XX_QS_STP.zip</a>
IGS	<a href="#">zws-70_XX_QS_IGS.zip</a>
IPT	<a href="#">zws-70_XX_QS_IPT.zip</a>
PDF	<a href="#">zws-70_XX_QS_PDF.zip</a>
SAT	<a href="#">zws-70_XX_QS_SAT.zip</a>
deployable accessory	KST4A-2/M8 KST4A-5/M8 KST4G-2/M8 KST4G-5/M8 MW-ZWS 1

pin assignment



order no.

zws-70/CD/QS