microsonic

EVERY THING ULTRA SONIC

Extract from our online catalogue:

hps+ ultrasonic sensors

Current to: 2021-12-16

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hps+ in safety gear - When you need chemically resistant, pressure-resistant sensors.

HIGHLIGHTS

- Optionally used in normal pressure or overpressure
- PTFE membrane › for protection against aggressive media
- Stainless-steel or optional PVDF housing for hps+340 › for use in the food industry
- Sealed against the housing with an O-ring made from FFKM › for the highest possible chemical resistance
- Digital display with direct measured value output in mm/cm or %
- Numeric configuration of the sensor using digital display

BASICS

- 2 switching outputs in pnp variant
- Analogue output plus 1 pnp switching output
- 4 detection ranges with a measurement range of 30 mm to 8 m
- microsonic Teach-in using T1 or T2 buttons
- 0.025 mm to 2.4 mm resolution
- Temperature compensation
- 9–30 V operating voltage
- LinkControl › for configuration of sensors from a PC

Description

For fill level measurements of aggressive media and in overpressure

the ultrasonic transducers of the new hps+ sensors are now fitted out - as standard - with a PTFE film. It is sealed with a FFKM O-ring against the housing made of 1.4571 stainless steel or PVDF. This ensures a high degree of resistance to aggressive media.

Fill level measurement in tanks

The hps+ sensors can be used for fill level measurement under normal pressure or in tanks and containers with an overpressure of up to 6 bar. Its special software filters also allow its use in containers filled from above or that have a stirring system.

Pressure-tight installation in a tank is undertaken by means of a 1“ threaded flange or a 2“ one in the case of hps+340.

Chemical resistance

and seal tightness were tested through being stored over cellulose thinner and 1,000,000 alternating pressure stresses. Cellulose thinner is extremely corrosive and has a high rate of penetration.

hps+340 in highly resistant PVDF housing - PTFE protective film sealed with an O-ring made from FFKM against the housing

Two different output stages are available for four detection ranges:

2 switching outputs in pnp switching technology

1 analogue output with an additional pnp switching output

The hps+ sensors with switching output have three operating modes:

- Single switching point
- Two-way reflective barrier
- Window mode

Two three-colour LEDs

always show the current state of the switching outputs or the analogue output.

With TouchControl

all configuration can be done right at the sensor. The easily legible three-digit LED display continually shows the current distance value and automatically switches between millimetre and centimetre displays.

Setting a switching or analogue output

can optionally be carried out by numeric input of the desired distance values, or using a Teach-in procedure. This permits the user to select the configuration method preferred. The hps+ sensors support synchronisation and multiplex operation and have extensive parameterisation options via LinkControl.
Further information on how to set up hps+ sensors can be found at mic+ sensors.

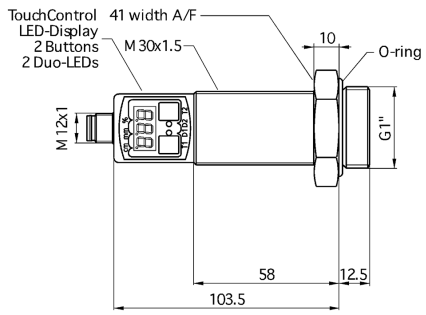
LinkControl

consists of the LinkControl adapter and the LinkControl software and facilitates the configuration of the hps+ sensors via a PC or laptop with any conventional conventional Windows® operating system.

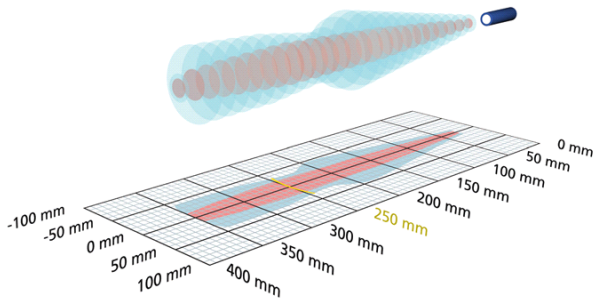
Sensor connected to the PC via LCA-2 for programming

hps+25/DD/TC/E/G1

scale drawing



detection zone



2 x pnp

measuring range	30 - 990 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	320 kHz
blind zone	30 mm
operating range	250 mm
maximum range by normal pressure	350 mm
maximum range by ≥ 2 bar overpressure	990 mm
resolution	0.025 mm
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

electrical data

operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+25/DD/TC/E/G1

hps+25/DD/TC/E/G1

outputs	
output 1	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	3 mm
switching frequency	11 Hz
response time	65 ms
delay prior to availability	< 300 ms

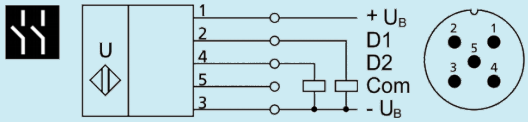
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+25/DD/TC/E/G1

pin assignment



order no.	**hps+25/DD/TC/E/G1**

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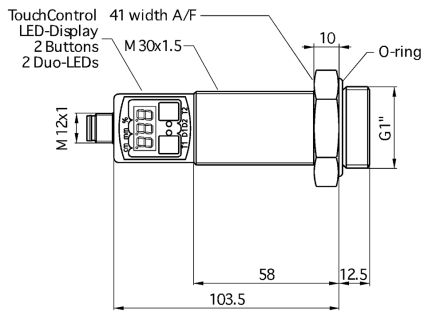
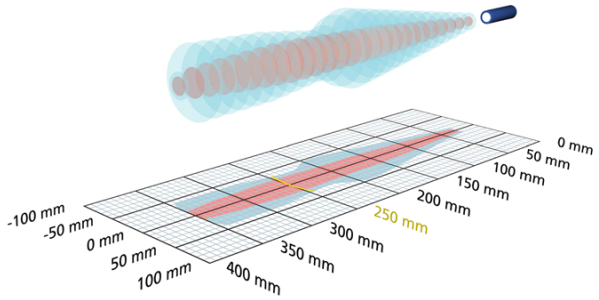
hps+25/DIU/TC/E/G1

scale drawing



detection zone



1 x pnp + 1 x analogue 4-20 mA / 0-10 V

measuring range	30 - 990 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode analogue distance measurement
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	320 kHz
blind zone	30 mm
operating range	250 mm
maximum range by normal pressure	350 mm
maximum range by ≥ 2 bar overpressure	990 mm
resolution	0.025 mm to 0.30 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

hps+25/DIU/TC/E/G1

electrical data	
operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+25/DIU/TC/E/G1

outputs	
output 1	analogue output current: 4-20 mA / voltage: 0-10 V, short-circuit-proof switchable rising/falling
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	3 mm
switching frequency	11 Hz
response time	65 ms
delay prior to availability	< 300 ms

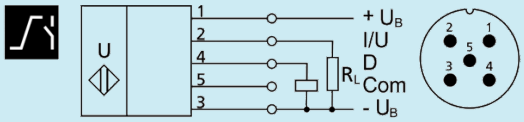
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+25/DIU/TC/E/G1

pin assignment



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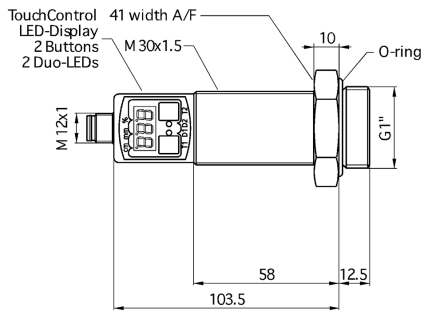
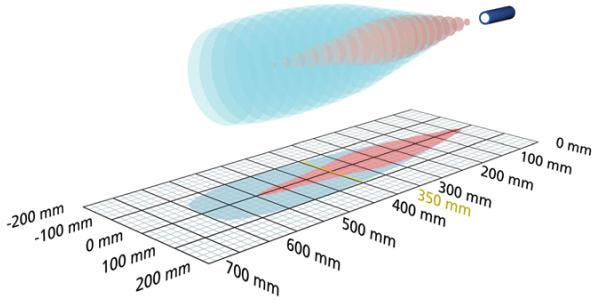
hps+35/DD/TC/E/G1

scale drawing



detection zone



2 x pnp

measuring range	85 - 1.500 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	320 kHz
blind zone	85 mm
operating range	350 mm
maximum range by normal pressure	600 mm
maximum range by ≥ 2 bar overpressure	1500 mm
resolution	0.18 mm to 0.45 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

electrical data

operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+35/DD/TC/E/G1

hps+35/DD/TC/E/G1

outputs	
output 1	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	5 mm
switching frequency	9 Hz
response time	84 ms
delay prior to availability	< 300 ms

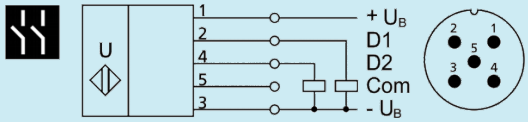
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+35/DD/TC/E/G1

pin assignment



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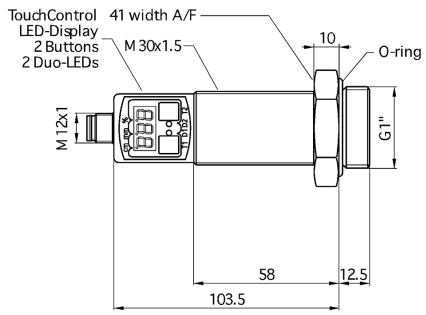
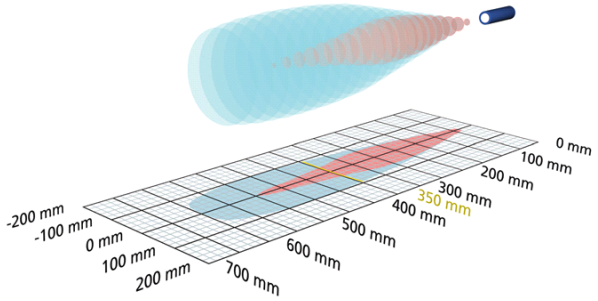
hps+35/DIU/TC/E/G1

scale drawing



detection zone



1 x pnp + 1 x analogue 4-20 mA / 0-10 V

measuring range	85 - 1.500 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode analogue distance measurement
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	320 kHz
blind zone	85 mm
operating range	350 mm
maximum range by normal pressure	600 mm
maximum range by ≥ 2 bar overpressure	1500 mm
resolution	0.18 mm to 0.45 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

hps+35/DIU/TC/E/G1

electrical data	
operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+35/DIU/TC/E/G1

outputs	
output 1	analogue output current: 4-20 mA / voltage: 0-10 V, short-circuit-proof switchable rising/falling
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	5 mm
switching frequency	9 Hz
response time	84 ms
delay prior to availability	< 300 ms

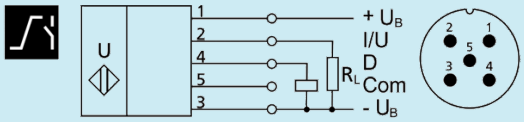
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+35/DIU/TC/E/G1

pin assignment



order no.	**hps+35/DIU/TC/E/G1**

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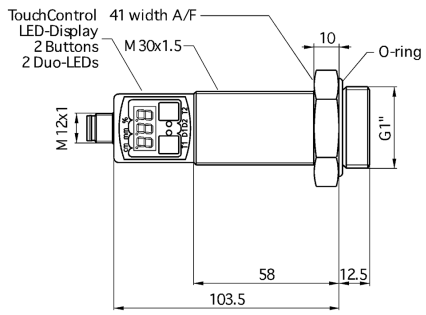
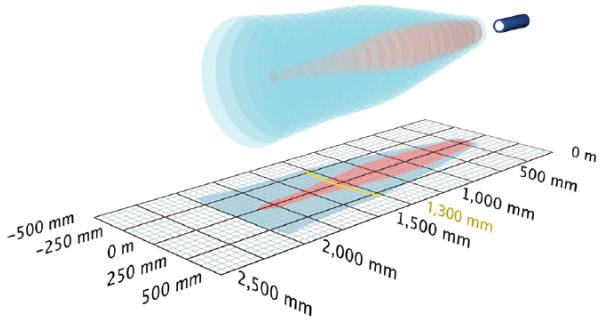
hps+130/DD/TC/E/G1

scale drawing



detection zone



2 x pnp

measuring range	200 - 5.000 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	180 kHz
blind zone	200 mm
operating range	1,300 mm
maximum range by normal pressure	2000 mm
maximum range by ≥ 2 bar overpressure	5000 mm
resolution	0.18 mm
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

electrical data

operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+130/DD/TC/E/G1

hps+130/DD/TC/E/G1

outputs	
output 1	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	20 mm
switching frequency	5 Hz
response time	160 ms
delay prior to availability	< 300 ms

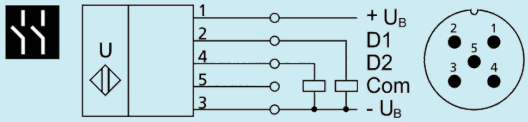
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+130/DD/TC/E/G1

pin assignment



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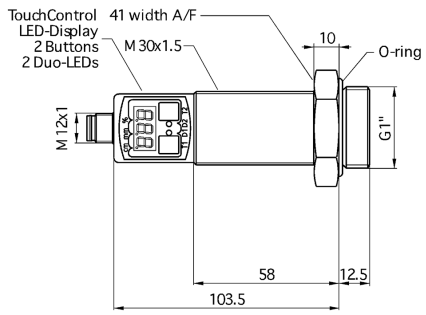
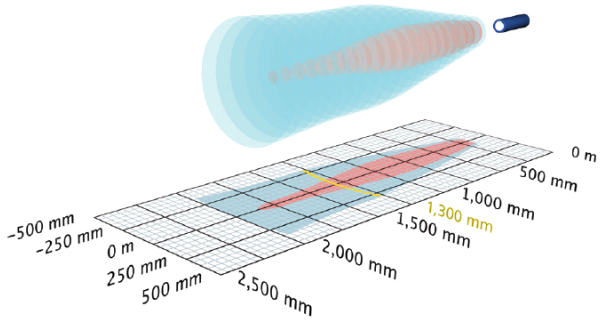
hps+130/DIU/TC/E/G1

scale drawing



detection zone



1 x pnp + 1 x analogue 4-20 mA / 0-10 V

measuring range	200 - 5.000 mm
design	process connection G1
operating mode	proximity switch/reflective mode reflective barrier window mode analogue distance measurement
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	180 kHz
blind zone	200 mm
operating range	1,300 mm
maximum range by normal pressure	2000 mm
maximum range by ≥ 2 bar overpressure	5000 mm
resolution	0.18 mm to 1.5 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

hps+130/DIU/TC/E/G1

electrical data	
operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+130/DIU/TC/E/G1

outputs	
output 1	analogue output current: 4-20 mA / voltage: 0-10 V, short-circuit-proof switchable rising/falling
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	20 mm
switching frequency	5 Hz
response time	160 ms
delay prior to availability	< 300 ms

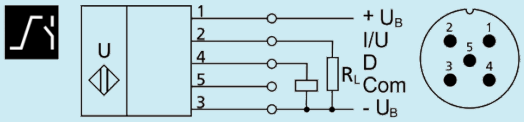
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	210 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G1

hps+130/DIU/TC/E/G1

pin assignment



order no.	**hps+130/DIU/TC/E/G1**

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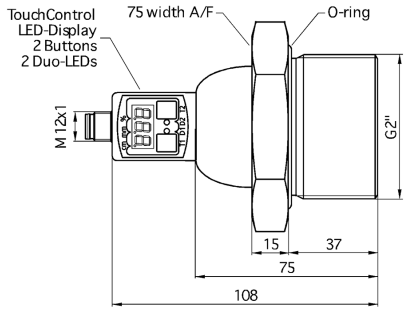
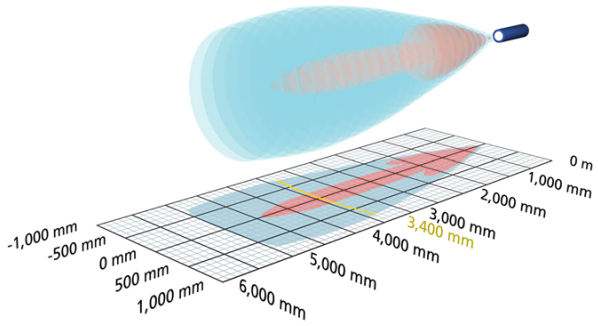
hps+340/DD/TC/E/G2

scale drawing



detection zone



2 x pnp

measuring range	350 - 8.000 mm
design	process connection G2
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G2

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	120 kHz
blind zone	350 mm
operating range	3,400 mm
maximum range by normal pressure	5000 mm
maximum range by ≥ 2 bar overpressure	8000 mm
resolution	0.18 mm
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

electrical data

operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+340/DD/TC/E/G2

hps+340/DD/TC/E/G2

outputs	
output 1	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	50 mm
switching frequency	3 Hz
response time	240 ms
delay prior to availability	< 380 ms

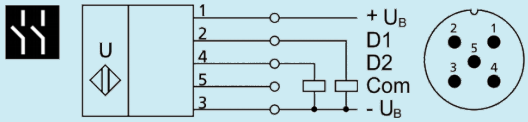
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	1,200 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G2

hps+340/DD/TC/E/G2

pin assignment



order no.	**hps+340/DD/TC/E/G2**

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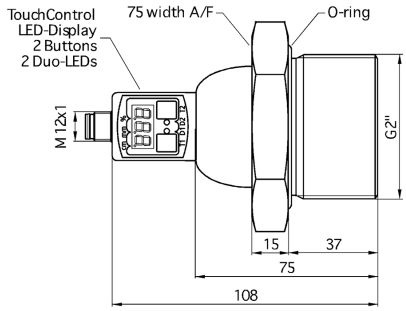
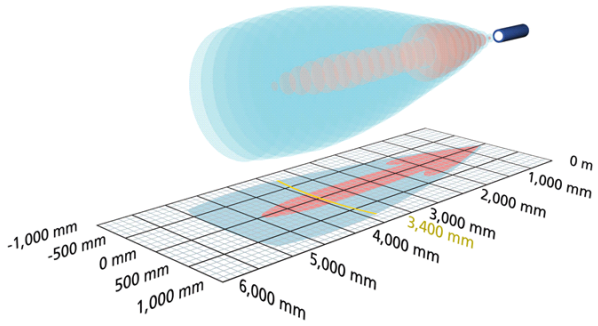
hps+340/DD/TC/G2

scale drawing



detection zone



2 x pnp

measuring range	350 - 8.000 mm
design	process connection G2
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance PVDF housing display process connection G2

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	120 kHz
blind zone	350 mm
operating range	3,400 mm
maximum range by normal pressure	5000 mm
maximum range by ≥ 2 bar overpressure	8000 mm
resolution	0.18 mm
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

electrical data

operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+340/DD/TC/G2

hps+340/DD/TC/G2

outputs	
output 1	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	50 mm
switching frequency	3 Hz
response time	240 ms
delay prior to availability	< 380 ms

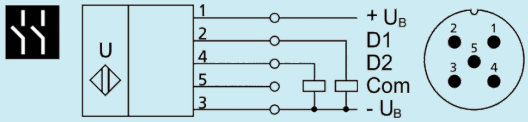
inputs	
input 1	com input synchronisation input

housing	
material	PVDF, PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	350 g
further versions	stainless steel
further versions	hps+340/DD/TC/E/G2

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance PVDF housing display process connection G2

hps+340/DD/TC/G2

pin assignment



order no.	**hps+340/DD/TC/G2**

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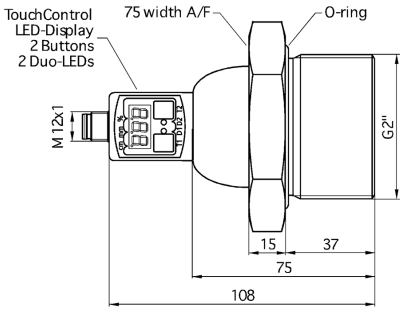
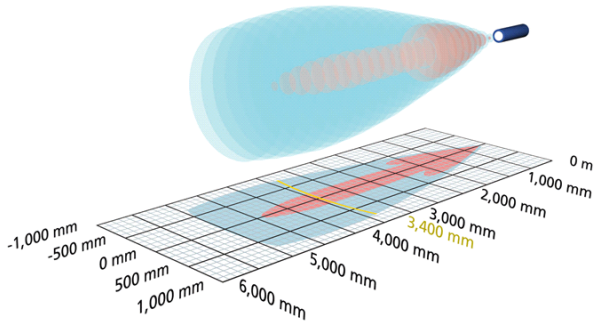
hps+340/DIU/TC/E/G2

scale drawing



detection zone



1 x pnp + 1 x analogue 4-20 mA / 0-10 V

measuring range	350 - 8.000 mm
design	process connection G2
operating mode	proximity switch/reflective mode reflective barrier window mode analogue distance measurement
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G2

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	120 kHz
blind zone	350 mm
operating range	3,400 mm
maximum range by normal pressure	5000 mm
maximum range by ≥ 2 bar overpressure	8000 mm
resolution	0.18 mm to 2.4 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

hps+340/DIU/TC/E/G2

electrical data	
operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+340/DIU/TC/E/G2

outputs	
output 1	analogue output current: 4-20 mA / voltage: 0-10 V, short-circuit-proof switchable rising/falling
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	50 mm
switching frequency	3 Hz
response time	240 ms
delay prior to availability	< 450 ms

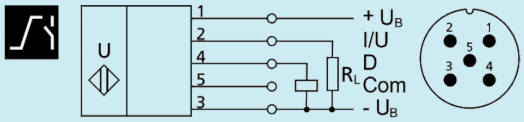
inputs	
input 1	com input synchronisation input

housing	
material	stainless steel, plastic parts: PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	1,200 g

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance stainless steel version display process connection G2

hps+340/DIU/TC/E/G2

pin assignment



order no.	**hps+340/DIU/TC/E/G2**

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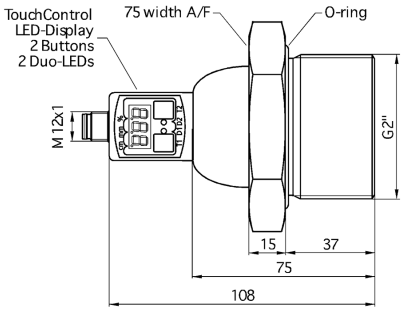
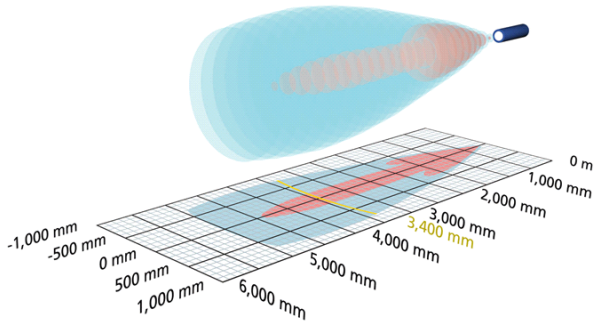
hps+340/DIU/TC/G2

scale drawing



detection zone



1 x pnp + 1 x analogue 4-20 mA / 0-10 V

measuring range	350 - 8.000 mm
design	process connection G2
operating mode	proximity switch/reflective mode reflective barrier window mode analogue distance measurement
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance PVDF housing display process connection G2

ultrasonic-specific

means of measurement	echo propagation time measurement
transducer frequency	120 kHz
blind zone	350 mm
operating range	3,400 mm
maximum range by normal pressure	5000 mm
maximum range by ≥ 2 bar overpressure	8000 mm
resolution	0.18 mm to 2.4 mm, depending on the analogue window
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)

hps+340/DIU/TC/G2

electrical data	
operating voltage U_B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 80 mA
type of connection	5-pin M12 initiator plug

hps+340/DIU/TC/G2

outputs	
output 1	analogue output current: 4-20 mA / voltage: 0-10 V, short-circuit-proof switchable rising/falling
output 2	switching output pnp: I_{max} = 200 mA (U_B-2V) NOC/NCC adjustable, short-circuit-proof
switching hysteresis	50 mm
switching frequency	3 Hz
response time	240 ms
delay prior to availability	< 450 ms

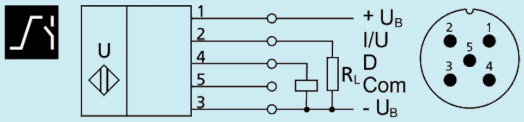
inputs	
input 1	com input synchronisation input

housing	
material	PVDF, PBT, TPU
ultrasonic transducer	coated with PTFE film, FFKM O-ring
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	350 g
further versions	stainless steel
further versions	hps+340/DIU/TC/E/G2

technical features/characteristics	
temperature compensation	yes
controls	2 push-buttons + LED display (TouchControl)
scope for settings	Teach-in and numeric configuration via TouchControl LCA-2 with LinkControl
Synchronisation	yes
multiplex	yes
indicators	3-digit LED display, 2 x three-colour LED
particularities	pressure-resistant up to 6 bar overpressure high chemical resistance PVDF housing display process connection G2

hps+340/DIU/TC/G2

pin assignment



order no.	**hps+340/DIU/TC/G2**

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