# hps+130/DIU/TC/E/G1

### scale drawing
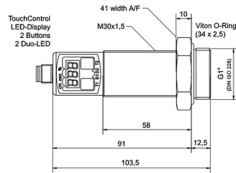


### detection zone
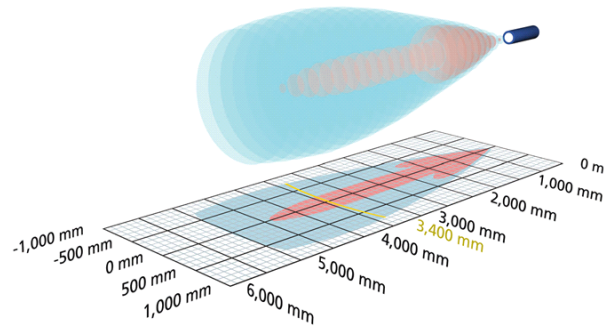


 1 x pnp + 1 x analogue 4-20 mA / 0-10 V

 5,000 mm

| | |
|---|---|
| operating range | 200 - 5.000 mm |
| design | Prozessanschluss G1 |
| operating mode | proximity switch/reflective mode<br>reflective barrier<br>window mode<br>analogue distance measurement |
| particularities | pressure-resistant<br>high chemical resistance<br>stainless steel version<br>display<br>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 | 5,000 mm |
| resolution/sampling rate | 0.18 mm to 1.5 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 % |
| Leerlaufstromaufnahme | ≤ 80 mA |
| type of connection | 5-pin M12 initiator plug |

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## outputs

| | |
|---|---|
| output 1 | analogue output<br>current: 4-20 mA / voltage: 0-10 V, short-circuit-proof<br>switchable rising/falling |
| output 2 | switching output<br>pnp: $I_{max}$ = 200 mA ($U_B$-2V)<br>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<br>synchronisation input |

## housing

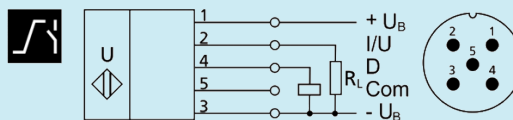| | |
|---|---|
| material | stainless steel, plastic parts: PBT, TPU |
| ultrasonic transducer | coated with PTFE film, FFKM O-ring |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 210 g |

## technical features/characteristics

| | |
|---|---|
| temperature compensation | yes |
| controls | 2 push-buttons + LED display (TouchControl) |
| scope for settings | Teach-in and numeric configuration via TouchControl<br>LCA-2 with LinkControl |
| Synchronisation | yes |
| multiplex | yes |
| indicators | 3-digit LED display, 2 x three-colour LED |
| particularities | pressure-resistant<br>high chemical resistance<br>stainless steel version<br>display<br>process connection G1 |

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**pin assignment**



| order no. | hps+130/DIU/TC/E/G1 |
|---|---|