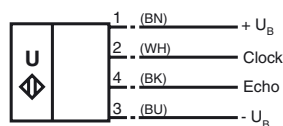


- Separate evaluation
- Direct detection mode

Standard symbol/Connection:



2 = Emitter pulse input
4 = Echo propagation time output
Core colours in accordance with EN 60947-5-2.

Technical drawing of a mechanical part, likely a valve or actuator, showing dimensions and assembly details. The drawing includes the following specifications:

- Top flange diameter: $\varnothing 74$
- Top flange thickness: 19
- Distance from top flange to the start of the main body: 32.5
- Main body length: 80
- Distance from the top of the main body to the bottom flange: 100
- Distance from the bottom of the main body to the bottom flange: 110
- Bottom flange thickness: 5
- Bottom flange diameter: 36
- Thread specification for the bottom flange: M12 x 1
- Thread specification for the main body: M30 x 1.5

CE

Sensing range
 Adjustment range
 Unusable area
 Standard target plate
 Transducer frequency
Electrical specifications
 Operating voltage
 No-load supply current I_0

350 ... 6000 mm
400 ... 6000 mm
0 ... 350 mm ¹⁾
100 mm x 100 mm
approx. 65 kHz

10 ... 30 V DC , ripple 10 %_{SS}
≤ 30 mA

1 pulse input for transmitter pulse (clock)
0-level (active): < 5 V ($U_B > 15$ V)
1-level (inactive): > 10 V ... + U_B ($U_B > 15$ V)
0-level (active): < 1/3 U_B (10 V < U_B < 15 V)
1-level (inactive): > 2/3 U_B ... + U_B (10 V < U_B < 15 V)

Pulse length	50 ... 700 μs (typ. 500 μs) ²⁾
Pause length	$\geq 50 \times$ pulse length
Impedance	10 kOhm internal connected to +U _B

Output type

1 pulse output for echo run time, short-circuit proof
open collector pnp with pulldown resistor = 22 kOhm
level 0 (no echo): $-U_B$
level 1 (echo detected): $\geq (+U_B - 2 \text{ V})$

Rated operational current I_e	15 mA , short-circuit/overload protected
Temperature influence	the echo propagation time: 0,17 % / K

Standards
Ambient conditions
Ambient temperature
Storage temperature

EN 60947-5-2

-25 ... 85 °C (248 ... 358 K)
-40 ... 85 °C (233 ... 358 K)

Protection degree

IP67
V1 connector (M12 x 1), 4-pin

Connection
Material
Housing
Transducer
Mass

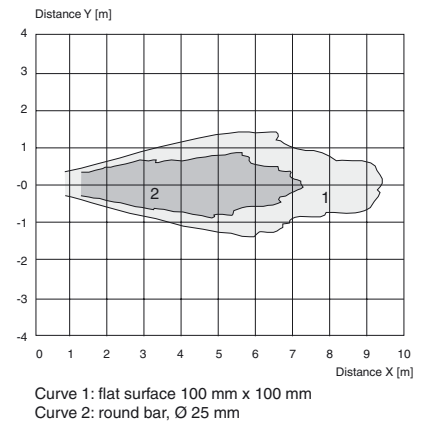
brass, nickel-plated, plastic components PBT
epoxy resin/hollow glass sphere mixture; polyurethane foam
250 g

Function

The sensing range is determined in the downstream evaluation electronics (e. g. the units UH3-KHD2-4E5, UH3-KHD2-4I or UH3-T1-KT). PLC modules or other existing evaluation units can also be substituted for these units offered by Pepperl+Fuchs.

The object distance in pulse-echo mode is obtained from the echo time.

- 1) The unusable area (blind range) BR depends on the pulse duration T_i .
The unusable area reaches a minimum with the shortest pulse duration.
- 2) The sensors detection range depends on the pulse duration T_i .
With pulse duration < typical pulse duration, the sensors detection range may be reduced.

UB6000-30GM-H3-V1**Characteristic curves/additional information****Characteristic response curves****Accessories****Mounting aid**

BF30
BF5-30

Evaluation units

UH3-KHD2-4E5
UH3-KHD2-4I
UH3-T1-KT

Cable sockets ^{*)}

V1-G-2M-PVC
V1-W-2M-PVC

^{*)} For additional cable sockets see section „Accessories“.