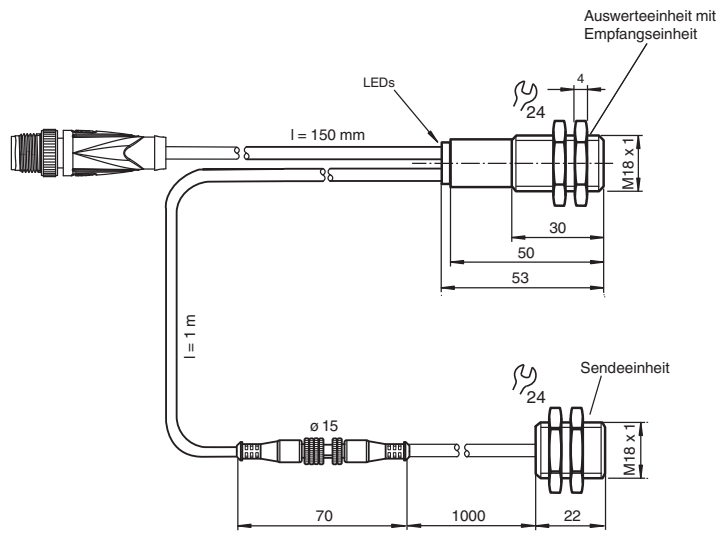
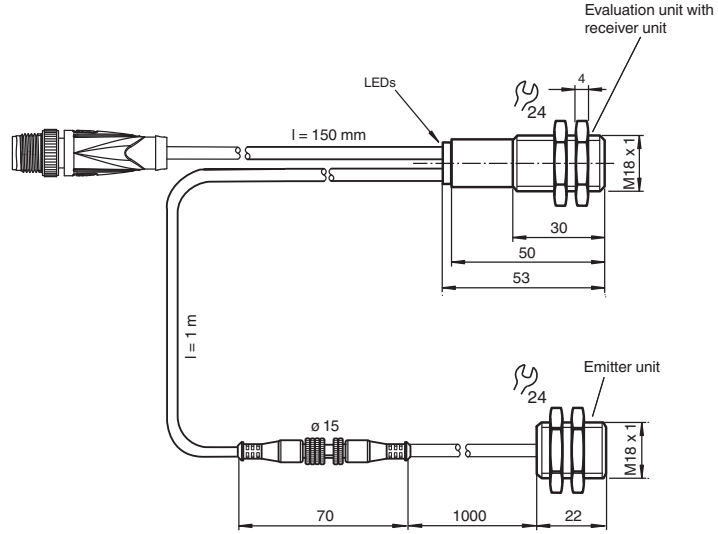


## Abmessungen



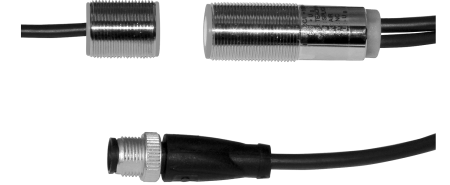
## Dimensions



## Ultraschall-Sensor Ultrasonic sensor

UDC-18GM50-400-3E2-150MM-V15-Y

Doc. No.: 45-5218  
DIN A3 -> DIN A7  
Part. No.: 308153  
Date: 07/03/2017



**PEPPERL+FUCHS**  
SENSING YOUR NEEDS

## Technische Daten

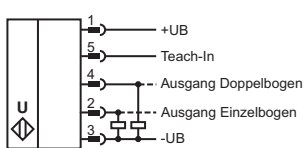
Allgemeine Daten	
Erfassungsbereich	20 ... 60 mm , optimaler Abstand: 45 mm
Wandlerfrequenz	395 kHz
Anzeigen/Bedienelemente	
LED grün	Anzeige: Einzelbogen detektiert
LED gelb	Anzeige: kein Bogen detektiert (Luft)
LED rot	Anzeige: Doppelbogen detektiert
Elektrische Daten	
Betriebsspannung	$U_B$ 18 ... 30 V DC , Welligkeit 10 % <sub>SS</sub>
Leerlaufstrom	$I_0$ < 50 mA
Bereitschaftsverzug	$t_v$ < 500 ms
Eingang	
Eingangstyp	Funktionseingang 0-Pegel: $-U_B$ ... $-U_B + 1V$ 1-Pegel: $+U_B - 1V$ ... $+U_B$
Impulsdauer	$\geq 100$ ms
Impedanz	$\geq 4$ k $\Omega$
Ausgang	
Ausgangstyp	2 Schaltausgänge pnp, Schließer
Bemessungsbetriebsstrom	$I_b$ 2 x 100 mA , kurzschluss-/überlastfest
Spannungsfall	$U_d$ $\leq 3$ V
Einschaltverzug	$t_{on}$ ca. 15 ms (kürzere Ansprechzeit auf Anfrage)
Ausschaltverzug	$t_{off}$ ca. 15 ms (kürzere Ansprechzeit auf Anfrage)
Impulsverlängerung	min. 120 ms parametrierbar
Umgebungsbedingungen	
Umgebungstemperatur	0 ... 60 °C (32 ... 140 °F)
Lagertemperatur	-40 ... 85 °C (-40 ... 185 °F)
Mechanische Daten	
Anschlussart	Kabelstecker M12 x 1 , 5-polig mit PVC Kabel, 150 mm
Schutzart	IP67
Material	
Gehäuse	Messing, vernickelt, Kunststoffteile PBT
Wandler	Epoxidharz/Glashohkugelmisch; Schaum Polyurethan
Masse	135 g
Allgemeine Informationen	
Ergänzende Informationen	Schalterstellung des externen Programmieradapters: "output load": pull-down "output logic": inv

## Technical data

General specifications	
Sensing range	20 ... 60 mm , optimal distance: 45 mm
Transducer frequency	395 kHz
Indicators/operating means	
LED green	indication: single sheet detected
LED yellow	Indication: No sheet detected (Air)
LED red	indication: double sheet detected
Electrical specifications	
Operating voltage	$U_B$ 18 ... 30 V DC , ripple 10 % <sub>SS</sub>
No-load supply current	$I_0$ < 50 mA
Time delay before availability	$t_v$ < 500 ms
Input	
Input type	Function input 0-level: $-U_B$ ... $-U_B + 1V$ 1-level: $+U_B - 1V$ ... $+U_B$
Pulse length	$\geq 100$ ms
Impedance	$\geq 4$ k $\Omega$
Output	
Output type	2 switch outputs PNP, NO
Rated operating current	$I_b$ 2 x 100 mA , short-circuit/overload protected
Voltage drop	$U_d$ $\leq 3$ V
Switch-on delay	$t_{on}$ approx. 15 ms (shorter response time on request)
Switch-off delay	$t_{off}$ approx. 15 ms (shorter response time on request)
Pulse extension	min. 120 ms programmable
Ambient conditions	
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Connection type	Cable connector M12 x 1 , 5-pin with PVC Cable, 150 mm
Degree of protection	IP67
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Mass	135 g
General information	
Supplementary information	Switch settings of the external programming adapter: "output load": pull-down "output logic": inv

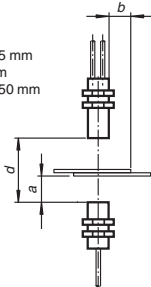
## Elektrischer Anschluss

## Kurven/Zusätzliche Informationen

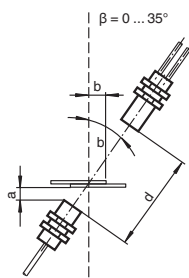


### Montage/Ausrichtung:

Empfohlene Abstände  
a = 5 ... 15 mm  
b  $\geq 10$  mm  
d = 45 ... 50 mm

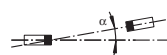


### Montage/Ausrichtung:



### Winkelversatz

$\alpha < +/- 1^\circ$



### Sensorversatz

s < +/- 1 mm

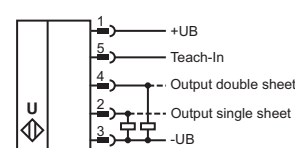


## Zubehör

**Montagehilfen**  
MH-UDB01  
**Verlängerungskabel**  
UDB-Cable-1m (Länge 1 m)  
UDB-Cable-2m (Länge 2 m)

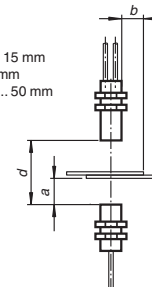
## Electrical connection

## Curves/additional information

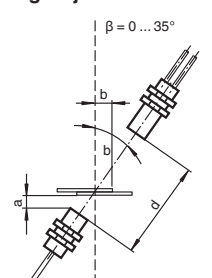


### Mounting/Adjustment

Recommended distances  
a = 5 ... 15 mm  
b  $\geq 10$  mm  
d = 45 ... 50 mm

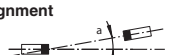


### Mounting/Adjustment



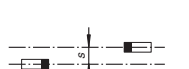
### Angular misalignment

a < +/- 1°



### Sensor offset

s < +/- 1 mm



## Accessories

**Mounting aids**  
MH-UDB01  
**Extension cables**  
UDB-Cable-1m (length 1 m)  
UDB-Cable-2m (length 2 m)

