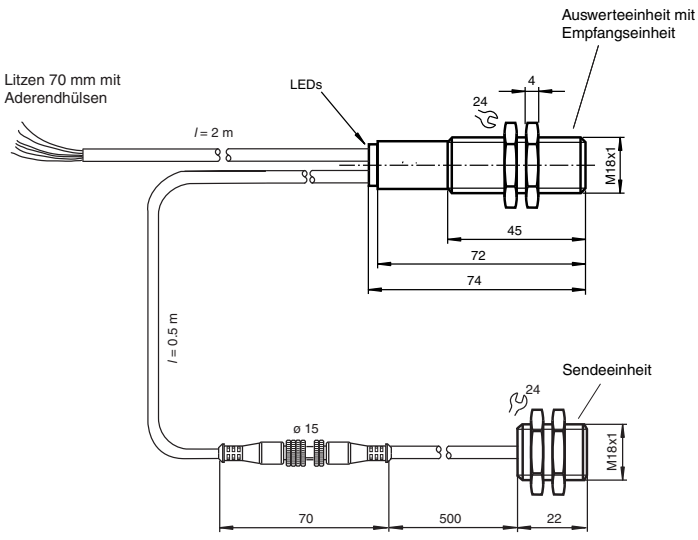
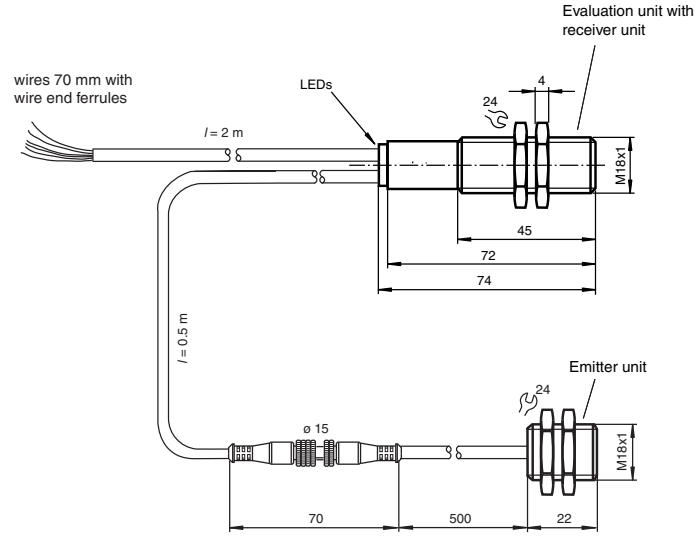


## Abmessungen



## Dimensions



## Ultraschall-Sensor Ultrasonic sensor



### UDC-18GM-400-3E2

Doc. No.: 45-9690A  
DIN A3 -> DIN A7  
Part. No.: 235862  
Date: 11/25/2014



**PEPPERL+FUCHS**  
SENSING YOUR NEEDS

## Technische Daten

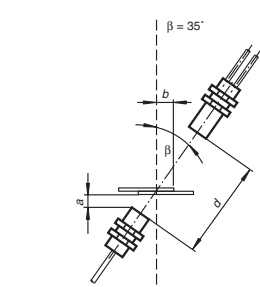
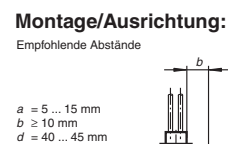
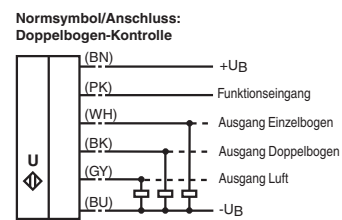
Allgemeine Daten		
Erfassungsbereich		20 ... 60 mm , optimaler Abstand: 45 mm
Wandelfrequenz		395 kHz
Anzeigen/Bedienelemente		
LED grün	Anzeige:	Einzelbogen detektiert
LED gelb	Anzeige:	kein Bogen detektiert (Luft)
LED rot	Anzeige:	Doppelbogen detektiert
Elektrische Daten		
Betriebsspannung	$U_B$	18 ... 30 V DC , Welligkeit 10 % <sub>SS</sub>
Leerlaufstrom	$I_0$	< 80 mA
Bereitschaftsverzug	$t_v$	< 500 ms
Eingang		
Eingangstyp		Funktionseingang 0-Pegel: $-U_B \dots -U_B + 1V$ 1-Pegel: $+U_B - 1V \dots +U_B$
Impulsdauer		$\geq 100$ ms
Impedanz		$\geq 4$ k $\Omega$
Ausgang		
Ausgangstyp		3 Schaltausgänge PNP, Schließer
Bemessungsstrom	$I_b$	3 x 100 mA , kurzschluss-/überlastfest
Spannungsfall	$U_d$	$\leq 2$ V
Einschaltverzögerung	$t_{on}$	ca. 15 ms (kürzere Ansprechzeit auf Anfrage)
Ausschaltverzögerung	$t_{off}$	ca. 15 ms (kürzere Ansprechzeit auf Anfrage)
Impulsverlängerung		min. 120 ms parametrierbar
Umgebungsbedingungen		
Umgebungstemperatur		0 ... 60 °C (32 ... 140 °F)
Lagertemperatur		-40 ... 70 °C (-40 ... 158 °F)
Mechanische Daten		
Anschlussart		Kabel PVC , 2 m
Aderquerschnitt		0,14 mm <sup>2</sup>
Schutzart		IP67
Material		
Gehäuse		Messing, vernickelt, Kunststoffteile PBT
Wandler		Epoxidharz/Glashohlkugelmischung; Schaum Polyurethan
Masse		150 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	$I_0$	< 80 mA
Time delay before availability	$t_v$	< 500 ms
Input		
Input type		Function input 0-level: $-U_B \dots -U_B + 1V$ 1-level: $+U_B - 1V \dots +U_B$
Pulse length		$\geq 100$ ms
Impedance		$\geq 4$ k $\Omega$
Output		
Output type		3 switch outputs PNP, NO
Rated operating current	$I_b$	3 x 100 mA , short-circuit/overload protected
Voltage drop	$U_d$	$\leq 2$ 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 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m
Core cross-section		0.14 mm <sup>2</sup>
Degree of protection		IP67
Material		
Housing		nickel plated brass; plastic components: PBT
Transducer		epoxy resin/hollow glass sphere mixture; polyurethane foam
Mass		150 g
General information		
Supplementary information		Switch settings of the external programming adapter: "output load": pull-down "output logic": inv

## Elektrischer Anschluss

## Kurven/Zusätzliche Informationen

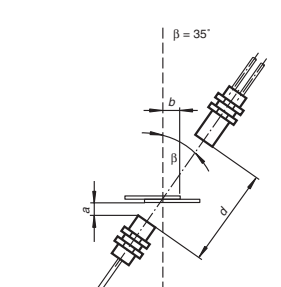
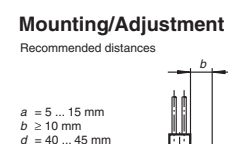
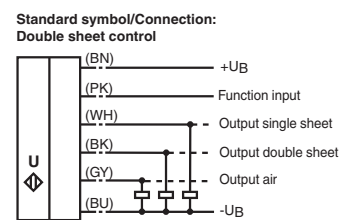


Winkelversatz  
 $\alpha < +/- 1^\circ$

Sensorversatz  
 $s < +/- 1$  mm

## Electrical connection

## Curves/additional information



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

Sensor offset  
 $s < +/- 1$  mm

## Zubehör

### Montagehilfen

MH-UDB01

### Verlängerungskabel

UDB-Cable-1m (Länge 1 m)  
UDB-Cable-2m (Länge 2 m)

## Accessories

### Mounting aids

MH-UDB01

### Extention cables

UDB-Cable-1m (length 1 m)  
UDB-Cable-2m (length 2 m)

