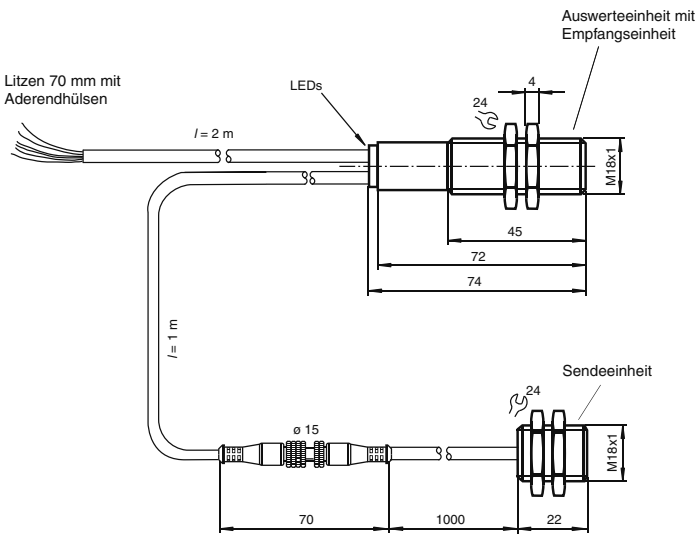
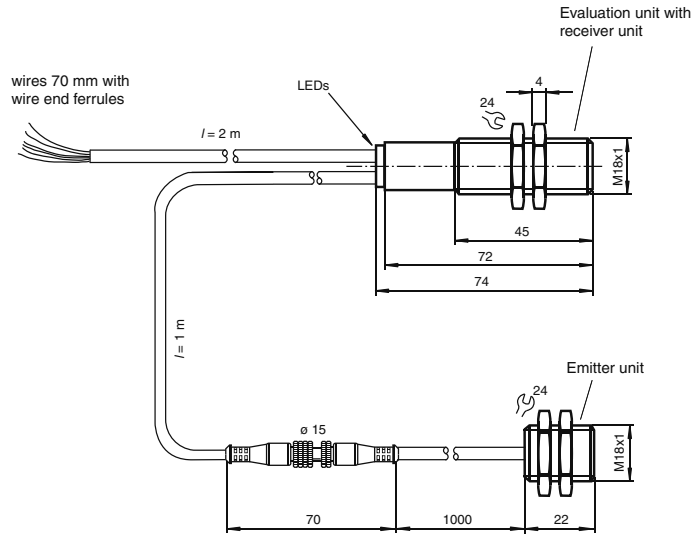


Abmessungen



Dimensions



Ultraschall-Sensor
Ultrasonic sensor



UDC-18GM-400-3E3-Y235849



Doc. No.: 45-9868
DIN A3 -> DIN A7
Part. No.: 235849
Date: 09/06/2011

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 % _{SS}
Leerlaufstrom	I_0 < 80 mA
Bereitschaftsverzug	t_v < 500 ms
Eingang	
Eingangstyp	Funktionseingang 0-Pegel: $-U_B$... $-U_B + 1V$ 1-Pegel: $+U_B - 1V$... $+U_B$
Impulsdauer	≥ 100 ms
Impedanz	≥ 4 k Ω
Ausgang	
Ausgangstyp	3 Schaltausgänge PNP, Öffner
Bemessungsbetriebsstrom	I_b 3 x 100 mA , kurzschluss-/überlastfest
Spannungsfall	U_d ≤ 2 V
Einschaltverzögerung	t_{on} ca. 1,5 ms
Ausschaltverzögerung	t_{off} ca. 1,5 ms
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 ²
Schutzart	IP67
Material	
Gehäuse	Messing, vernickelt, Kunststoffteile PBT
Wandler	Epoxidharz/Glashohkugelmischung; Schaum Polyurethan
Masse	150 g

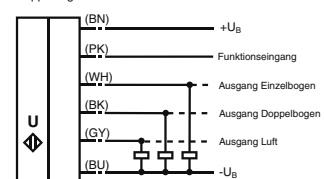
Technical data

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 % _{SS}
No-load supply current	I_0 < 80 mA
Time delay before availability	t_v < 500 ms
Input	
Input type	Function input 0-level: $-U_B$... $-U_B + 1V$ 1-level: $+U_B - 1V$... $+U_B$
Pulse length	≥ 100 ms
Impedance	≥ 4 k Ω
Output	
Output type	3 Switch outputs PNP, normally-closed
Rated operational current	I_b 3 x 100 mA , short-circuit/overload protected
Voltage drop	U_d ≤ 2 V
Switch-on delay	t_{on} approx. 1.5 ms
Switch-off delay	t_{off} approx. 1.5 ms
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 ²
Protection degree	IP67
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Masse	150 g

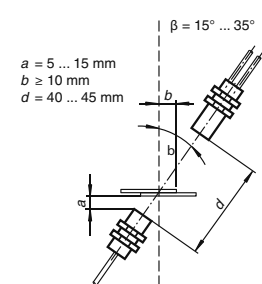
Elektrischer Anschluss

Kurven/Zusätzliche Informationen

Normsymbol/Anschluss:
Doppelbogen-Kontrolle

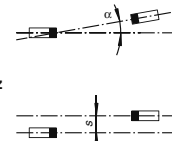


Montage/Ausrichtung:



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

Sensorversatz
 $s < +/- 1$ mm



Zubehör

Montagehilfen

MH-UDB01

Verlängerungskabel

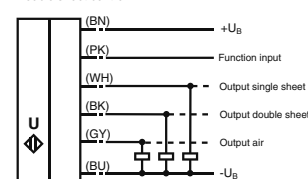
UDB-Cable-1m (Länge 1 m)

UDB-Cable-2m (Länge 2 m)

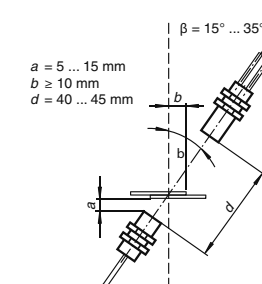
Electrical connection

Curves/additional information

Standard symbol/Connection:
Double sheet control

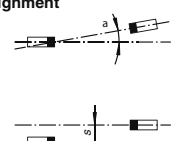


Mounting/Adjustment



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

Sensor offset
 $s < +/- 1$ mm



Accessories

Mounting aids

MH-UDB01

Extention cables

UDB-Cable-1m (length 1 m)

UDB-Cable-2m (length 2 m)

