

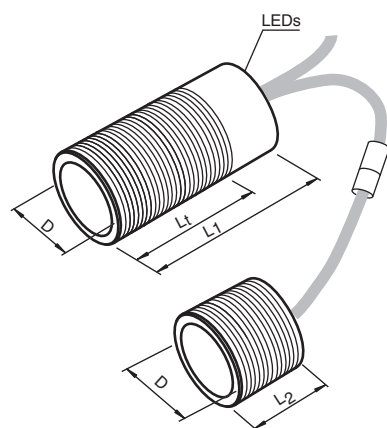


Properties

- Ø18 mm housing
- Wide range double sheet detection
- Very fast response
- DC, 3 switching outputs
- Cable version

Your Benefit

- 400-series is designed for detection of the broadest range of materials (typically paper)
- One sensor identifies zero-, single- and double-sheets



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Sensing range	20 ... 60 mm , optimal distance: 45 mm
Transducer frequency	395 kHz
Operating voltage	18 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	< 80 mA
Rated operational current	3 x 100 mA , short-circuit/overload protected
Switch-on delay	approx. 15 ms (shorter response time on request)
Switch-off delay	approx. 15 ms (shorter response time on request)
Pulse extension	min. 120 ms programmable
Input type	Function input
LED green	indication: single sheet detected
LED yellow	Indication: No sheet detected (Air)
LED red	indication: double sheet detected
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	cable PVC , 2 m



Model Number

		UDC-18GM-400-3E1	UDC-18GM-400-3E2	UDC-18GM-400-3E3
Output type	3 switch outputs NPN, NC	●		
	3 Switch outputs PNP, NC			●
	3 switch outputs PNP, NO		●	

Approvals and Certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source	●	●	●
CSA approval	cCSAus Listed, General Purpose, Class 2 Power Source	●	●	●

Dimensions

Receiver length L1 [mm]	74
Emitter length L2 [mm]	22
Diameter D [mm]	18
Receiver thread length l _t [mm]	45

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets See pages 1068 ... for mounting aids

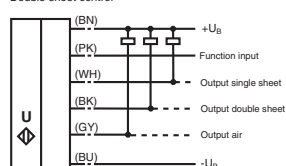
UDB-Cable-2M	Extension cable
MH-UDB01	Mounting bracket for double sheet monitor
UDB-Cable-1M	Extension cable

Electrical Connection



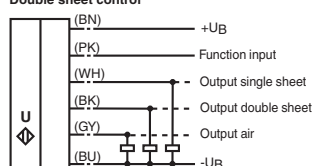
UDC-18GM-400-3E1

Standard symbol/Connection:
Double sheet control



UDC-18GM-400-3E2
UDC-18GM-400-3E3

Standard symbol/Connection:
Double sheet control





Properties

- Ø18 mm housing with mounting bracket
- Wide range double sheet detection
- Very fast response
- DC, 3 switching outputs
- Cable version

Your Benefit

- 400-series is designed for detection of the broadest range of materials (typically paper)
- One sensor identifies zero-, single- and double-sheets

Technical Data

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General Data

Sensing range	20 ... 60 mm , optimal distance: 45 mm
Transducer frequency	395 kHz
Operating voltage	18 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	< 80 mA
Rated operational current	3 x 100 mA , short-circuit/overload protected
Switch-on delay	approx. 15 ms (shorter response time on request)
Switch-off delay	approx. 15 ms (shorter response time on request)
Pulse extension	min. 120 ms programmable
Input type	Function input
LED green	indication: single sheet detected
LED yellow	Indication: No sheet detected (Air)
LED red	indication: double sheet detected
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	cable PVC , 2 m



Model Number

Output type	3 switch outputs NPN, NC
	3 switch outputs PNP, NC

UDC-18GMA-400-3E1

UDC-18GMA-400-3E3

Approvals and Certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source
CSA approval	cCSAus Listed, General Purpose, Class 2 Power Source

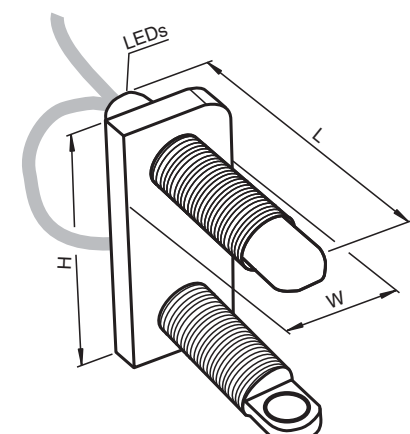
Dimensions

Length L [mm]	87
Diameter D [mm]	18
Height H [mm]	86
Width W [mm]	36

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets See pages 1068 ... for mounting aids

UDB-Cable-2M	Extension cable
UDB-Cable-1M	Extension cable



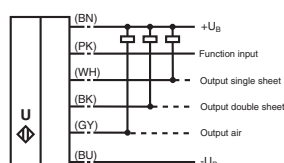
Electrical Connection



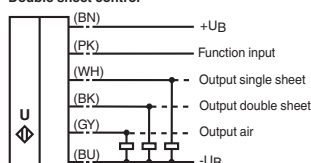
UDC-18GMA-400-3E1

UDC-18GMA-400-3E3

Standard symbol/Connection:
Double sheet control



Standard symbol/Connection:
Double sheet control



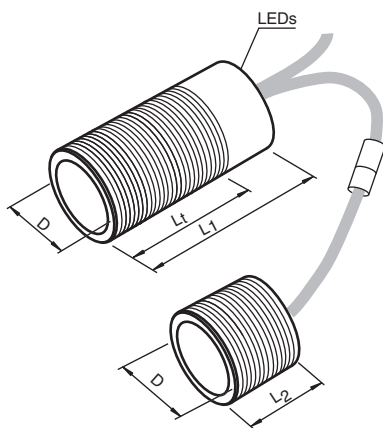


Properties

- Short Ø18 mm housing
- Wide range double sheet detection
- Very fast response
- DC, 3 switching outputs
- Cable version

Your Benefit

- Short-barrel design
- 400-series is designed for detection of the broadest range of materials
- One sensor identifies zero-, single- and double-sheets



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Sensing range	20 ... 60 mm , optimal distance: 45 mm
Transducer frequency	395 kHz
Operating voltage	18 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	< 50 mA
Rated operational current	3 x 100 mA , short-circuit/overload protected
Switch-on delay	approx. 15 ms (shorter response time on request)
Switch-off delay	approx. 15 ms (shorter response time on request)
Pulse extension	min. 120 ms programmable
Input type	Function input
LED green	indication: single sheet detected
LED yellow	Indication: No sheet detected (Air)
LED red	indication: double sheet detected
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	cable PVC , 2 m



Model Number

	UDC-18GM50-400-3E1	UDC-18GM50-400-3E2	UDC-18GM50-400-3E0	UDC-18GM50-400-3E3
Output type	3 switch outputs NPN, NC			
	3 switch outputs NPN, NO			
	3 switch outputs PNP, NC			
	3 switch outputs PNP, NO			

Approvals and Certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source				
CSA approval	cCSAus Listed, General Purpose, Class 2 Power Source				

Dimensions

Receiver length L1 [mm]	53
Emitter length L2 [mm]	22
Diameter D [mm]	18
Receiver thread length Lt [mm]	30

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages 972 ... for cordsets See pages 1068 ... for mounting aids

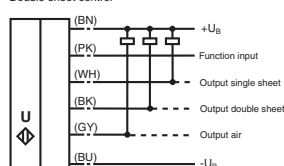
MH-UDB01	Mounting bracket for double sheet monitor
UDB-Cable-2M	Extension cable
UDB-Cable-1M	Extension cable

Electrical Connection



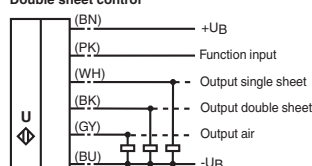
UDC-18GM50-400-3E1
UDC-18GM50-400-3E0

Standard symbol/Connection:
Double sheet control



UDC-18GM50-400-3E2
UDC-18GM50-400-3E3

Standard symbol/Connection:
Double sheet control





Properties

- Short Ø18 mm housing
- Wide range double sheet detection
- Very fast response
- DC, 3 switching outputs
- Cable version

Your Benefit

- Short-barrel design
- 255-series is designed for detection of the materials too thick for 400-series monitoring
- One sensor identifies zero-, single- and double-sheets

Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Sensing range	20 ... 60 mm , optimal distance: 45 mm
Transducer frequency	255 kHz
Operating voltage	18 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	< 50 mA
Rated operational current	3 x 100 mA , short-circuit/overload protected
Switch-on delay	approx. 15 ms (shorter response time on request)
Switch-off delay	approx. 15 ms (shorter response time on request)
Pulse extension	min. 120 ms programmable
Input type	Function input
LED green	indication: single sheet detected
LED yellow	Indication: No sheet detected (Air)
LED red	indication: double sheet detected
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	cable PVC , 2 m



Model Number

Output type	3 switch outputs NPN, NC
	3 switch outputs NPN, NO
	3 switch outputs PNP, NC

UDC-18GM50-255-3E1

UDC-18GM50-255-3E0

UDC-18GM50-255-3E3

Approvals and Certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source
CSA approval	cCSAus Listed, General Purpose, Class 2 Power Source

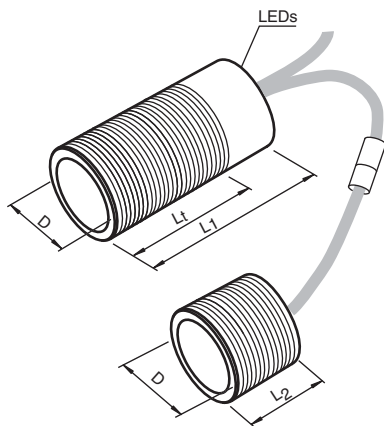
Dimensions

Receiver length L1 [mm]	53
Emitter length L2 [mm]	22
Diameter D [mm]	18
Receiver thread length l _t [mm]	30

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets See pages 1068 ... for mounting aids

UDB-Cable-2M	Extension cable
MH-UDB01	Mounting bracket for double sheet monitor
UDB-Cable-1M	Extension cable

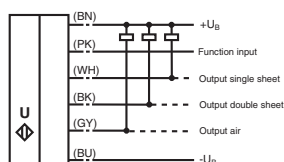


Electrical Connection



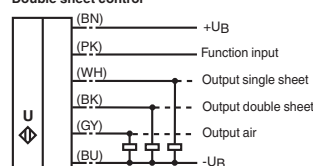
UDC-18GM50-255-3E1
UDC-18GM50-255-3E0

Standard symbol/Connection:
Double sheet control



UDC-18GM50-255-3E3

Standard symbol/Connection:
Double sheet control



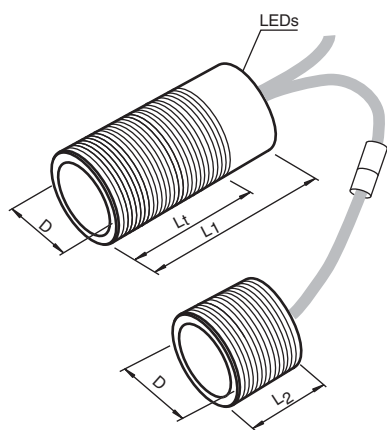


Properties

- Short Ø18 mm housing
- Universal double material detection
- Fast response
- DC, 3 switching outputs
- Cable version

Your Benefit

- Short-barrel design
- 255S-series offers the maximum power possible in the 18 mm diameter housing
- Excellent for plastics (credit card thickness), cardboard and thin metals
- One sensor identifies zero-, single- and double-sheets



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Sensing range	40 ... 100 mm optimal distance 75 mm
Transducer frequency	255 kHz
Operating voltage	18 ... 30 V DC, ripple 10 % _{SS}
No-load supply current	< 65 mA
Rated operational current	3 x 100 mA, short-circuit/overload protected
Switch-on delay	approx. 70 ms
Switch-off delay	approx. 70 ms
Pulse extension	min. 120 ms programmable
Input type	Function input
LED green	Indicator: single material detected
LED yellow	Indicator: no material detected (air)
LED red	Indicator: double material detected
Ambient temperature	0 ... 60 °C (32 ... 140 °F)
Material	
Housing	nickel plated brass; plastic components: PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	cable PVC, 2 m



Model Number

	UDC-18GM50-255S-3E0	UDC-18GM50-255S-3E1	UDC-18GM50-255S-3E3
Output type			
3 switch outputs NPN, NC	●	●	
3 switch outputs NPN, NO			
3 switch outputs PNP, NC			●

Approvals and Certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source	●	●	●
CSA approval	cCSAus Listed, General Purpose, Class 2 Power Source	●	●	●

Dimensions

Receiver length L1 [mm]	53
Emitter length L2 [mm]	40
Diameter D [mm]	18
Receiver thread length l _t [mm]	30

Accessories

This and more accessories can be found in chapter 3.5 from page 673
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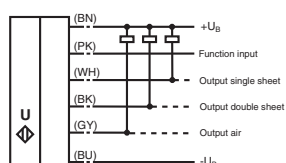
UDB-Cable-2M	Extension cable
MH-UDB01	Mounting bracket for double sheet monitor
UDB-Cable-1M	Extension cable

Electrical Connection



UDC-18GM50-255S-3E0
UDC-18GM50-255S-3E1

Standard symbol/Connection:
Double sheet control



UDC-18GM50-255S-3E3

Standard symbol/Connection:
Double sheet control

