

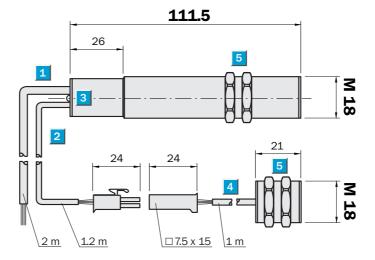
- Double-sheet detection of foils, metal sheets and ultra-fine corrugated cardboards
- Automatic adjustment, no Teach-in necessary
- Color-independent
- Plug & Play
- 2 PNP outputs for doubleand mis-fed-sheets



(\in

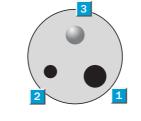
Accessories Mounting systems

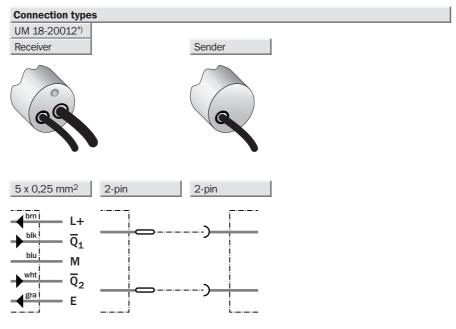
Dimensional drawing



Adjustments possible UM 18-20012

- Connection cable 2 m (receiver)
 - Connection cable 1.2 m, 2-pin sender and receiver
- 2-color LED indicator, receiver
- Connection cable 1 m, 2-pin sender and receiver
- Fastening nuts, width across 24 mm





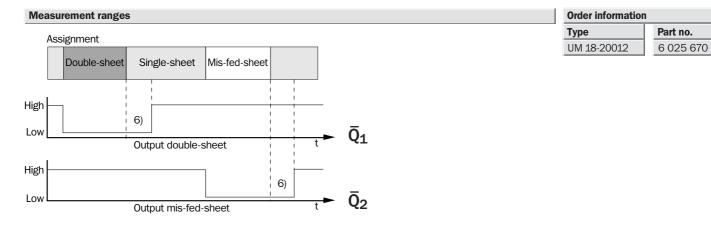
*) Sender/receiver pair: Individual components on request

Technical data	UM 18-	20012						
Installation distance								
sender – receiver	40 mm ± 3 mm							
Blind zone	7 mm, each time before sender							
	and receiver							
Permissible angle deviation	\pm 45° perpendicular to sheet							
Ultrasonic frequency	400 kHz							
Resolution	Double-sheets not completely							
	glued together							
Operational area								
Paper grams per square meter	20 1200 g/m ²							
Metal-laminated sheets and films	≤ 0.4 mm thickness							
Self-adhesive films, metal sheets	≤ 0.3 mm							
Ultra-fine corrugated cardboard								
Supply voltage V _S	12 30 V DC ¹⁾							
Ripple	± 10 %							
Current consumption 2)	≤ 45 mA							
Double-sheet switching/Q ₁ ³⁾	PNP, $V_S - 2 V$, $I_{max} = 500 \text{ mA}$							
Mis-fed-sheet switching output/Q ₂ ³								
Response time 4)	2.5 ms or 6.5 ms							
Off delay	10 ms							
V _S at control unit ⁴⁾	Response time 6.5 ms: V _S > 9 V DC							
	Response time 2.5 ms: V _S < 5 V DC							
Standby delay	300 ms							
Connection type	Cable PVC, 2 m; 5 x 0.25 mm ²							
Sender cable 5)	PVC, 1.2 m with 2-pin plug							
Receiver cable 5)	PVC, 1 m with 2-pin plug							
Enclosure rating	IP 65							
Ambient temperature	Operation +5 °C +60 °C							
	Storage -40 °C +85 °C							
Weight	280 g							
Housing material	Nickel-plated brass							
Limit values Without load	4) If the control line is laid against a ground, the response time is 2.5 ms. If the con-	5) Not re	verse-po	olarity pro	tected			

2) Without load

3) Outputs short-circuit protected, Opener; no switching hysteresis

the response time is 2.5 ms. If the control line is laid against L+, the response time is 6.5 ms.



6) Off delay