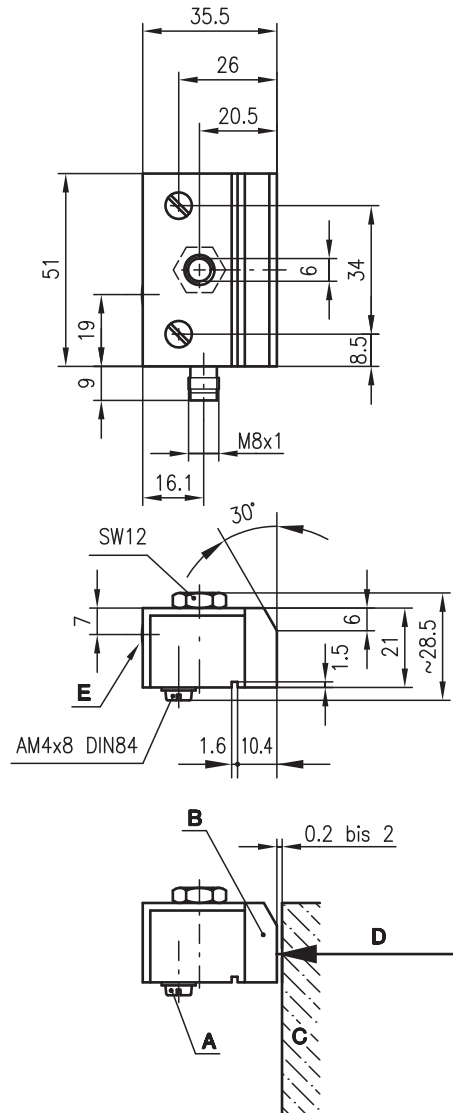


Part No. 501 10652



Dimensioned drawing



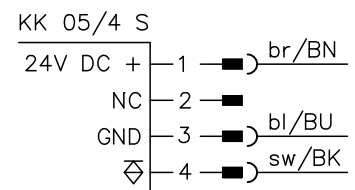
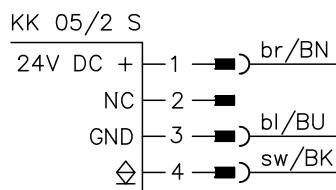
0.2 ... 2.0mm



- Capacitive sensor for mass detection
- Connection via M8 connector for fast installation
- NPN / PNP output
- Switching state display

- A** Use only plastic screws with this mounting option!
- B Plastic part:** The mounting parts must be at least 3mm from the plastic part in all directions!
- C** Measurement part
- D** Approaching plane
- E** Indicator diode

Electrical connection



Accessories:

(available separately)

- Ready-made cables M12 (K-D M8...)



We reserve the right to make changes • ms\_c05gb\_fm

**Specifications**

	<b>KK 05/4 S</b>	<b>KK 05/2 S</b>
<b>Sensor data</b>		
Scanning range (relative to paper)	min. 0,2 ... 2,0mm	
Installation width	51 mm	
Installation height	≈ 28,5mm	
Installation depth	36 mm	
<b>Timing</b>		
Switching frequency	100Hz	
Input pulse	min. 5ms	
Delay before start-up	≤ 100ms	
<b>Electrical data</b>		
Operating voltage $U_B$	24VDC (incl. residual ripple) functional extra-low voltage with reliable disconnection or protective extra-low voltage (VDE 0100/T 410)	
Residual ripple	≤ 15% the lowest voltage may not be below $U_B - 20\%$	
Power consumption	max. 250mW	
Switching output	PNP transistor	NPN transistor
Function	dark switching if object present: high-impedance output	
Output current	max. 100mA	
<b>Indicators</b>		
Yellow LED	switching state display	
Yellow LED off	object present	
Yellow LED on	no object	
<b>Mechanical data</b>		
Housing	aluminium	
Surface	anodised	
Weight	approx. 60g	
Connection type	M8 connector, 4-pin	
<b>Environmental data</b>		
Ambient temp. (operation/storage)	0°C ... +50°C/-30°C ... +70°C	
Protective circuit <sup>1)</sup>	2, 3	
Protection class	IP 40	
Standards applied	IEC 60947-5-2	

1) 2=polarity reversal protection, 3=short-circuit protection for all outputs

**Tables**

**Diagrams**

**Order guide**

	<b>Designation</b>	<b>Part No.</b>
PNP output	KK 05/4 S	500 29234
NPN output	KK 05/2 S	500 29228

**Remarks**

**Approved purpose:** The KK 05 sensors are capacitive sensors for the contactless detection of objects.

- The sensor only detects condensed stacks; single sheets are not detected.
- Mounting parts must be at least 3mm from the plastic in all directions.
- **The plastic foil over the detection surface must NOT be damaged or removed!**