

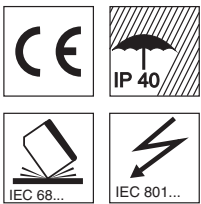
Dimensioned drawing

en 05-2014/06 50109306-01



18 - 30 V
DC

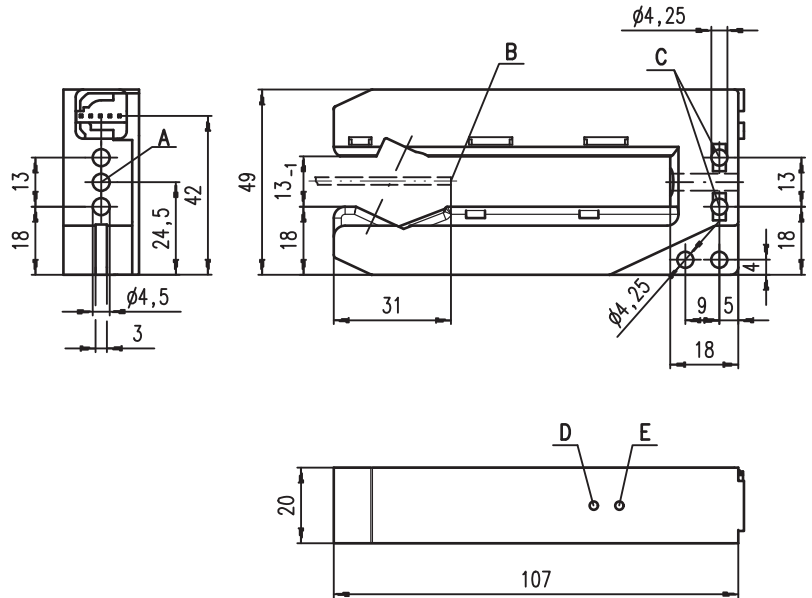
- Reliable detection of multi-layer paper and plastic sheets and metal foils
- Measurement range from 40g/m² paper to 350g/m² cardboard
- Plug connection
- Operating state indicators via light-emitting diodes
- NPN switching outputs
- Teach input



Accessories:

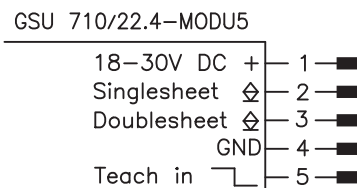
(available separately)

- Ready-made cable, 2m long (K-D MODU5-5P-2m-PVC, Part no. 50114946)



- A Through hole
- B Minimum intrusion depth of sheet edge
- C Inlay nut M4 possible
- D Red indicator diode
- E Yellow indicator diode

Electrical connection



We reserve the right to make changes •

Specifications

Physical data

Mouth width	13 mm
Mouth depth	89 mm
Minimum intrusion depth	31 mm
Converter frequency	approx. 330kHz

Timing

Switching frequency	200Hz
Response time	5ms
Delay before start-up	≤ 300ms acc. to IEC 60947-5-2

Electrical data

Operating voltage U_B	18 ... 30VDC (incl. residual ripple)
Residual ripple	≤ 15% of U_B
Open-circuit current	≤ 40mA
Switching outputs	2 NPN transistor outputs
Function characteristics	single sheet detected, or ≥ 1 sheet double sheet detected, or ≥ 2 sheets
Signal voltage high/low	≥ ($U_B - 2V$) / ≤ 2V
Output current	max. 100mA per output

Indicators

Yellow LED	single sheet detected
Red LED	double sheet detected

Mechanical data

Housing	plastic
Color	red
Weight	approx. 100g
Connection type	AMP-Modu, 5-pin

Environmental data

Ambient temp. (operation/storage)	0°C ... +50°C / -40°C ... +70°C
Protective circuit ¹⁾	1, 2, 3
VDE safety class	II, all-insulated
Protection class	IP 40
Standards applied	IEC 60947-5-2

Options

Teach-in input

Teach-in input resistance	R_{in} : 10kΩ
Teach-in active/not active	≤ 2V / ≥ 10V or not connected
Teach-in duration	max. 100ms
Teach-in delay	approx.. 300ms

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

Mode of operation

The "singlesheet" output signals that an object is within the detection range. This output may be used to check for presence. A detected double sheet is signalled at the "doublesheet" output.

By applying a low signal to the teach-in input, the calibration process is started. If a sheet is then transported through the detection range, a calibration to this medium takes place. The calibration process is completed after approx. 100 ms. The additional teach-in allows the measurement range limits to be extended somewhat.

When switched back on, the sensor again functions in standard mode 40-350g/m².

Order guide

Designation	Part No.
GSU 710/22.4-MODU5	50108700

Remarks

● Intended use:

The GSU 710 double sheet testing unit is a monitoring unit predominately designed for single sheet checking in paper processing machines.

Operate in accordance with intended use!

- ↪ This product is not a safety sensor and is not intended as personnel protection.
- ↪ The product may only be put into operation by competent persons.
- ↪ Only use the product in accordance with the intended use.