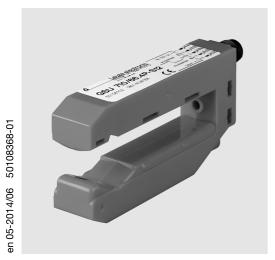
GSU 710/66

Double Sheet Testing Unit

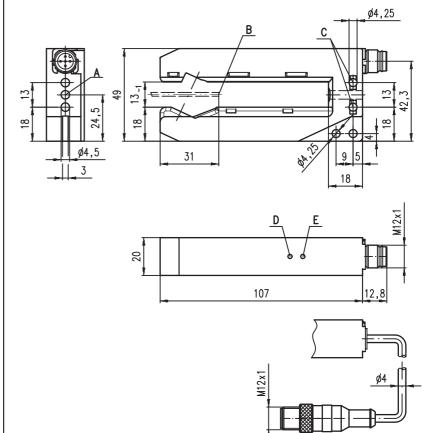






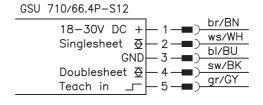
- Reliable detection of multi-layer paper and plastic sheets and metal foils
- Measurement range from 20g/m² paper to 800g/m² cardboard
- Plug connection
- Operating state indicators via light-emitting diodes
- Push-pull switching outputs

Dimensioned drawing



- 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





Accessories:

(available separately)

- M12 connectors (KD ...)
- Ready-made cables (K-D ...)



GSU 710/66

Specifications

Physical data

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

Timing

Switching frequency 200 Hz Response time

5 ms ≤ 300 ms acc. to IEC 60947-5-2 Delay before start-up

Electrical data

18 ... 30 VDC (incl. residual ripple) \leq 15% of U_B Operating voltage U_B Residual ripple Open-circuit current ≤ 50 mA 2 push-pull switching outputs ¹⁾ single sheet detected, or ≥ 1 sheet Switching outputs Function characteristics double sheet detected, or ≥ 2 sheets ≥ (U_B-2V)/≤ 2V max. 100mA per output Signal voltage high/low Output current

plastic

Indicators

Yellow LED single sheet detected Red LED double sheet detected

Mechanical data

Housing Color Weight Connection type

red approx. 100g M12 connector, 5-pin, or

cable 400mm with M12 connector, 5-pin

Designation

Environmental data

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

Options

Teach-in input

 $R_{in} \colon 10 \, k\Omega$ /...P (PNP): $\geq 10 \, V / \leq 2 \, V$ or floating Teach-in input resistance Teach-in active/not active Teach-in duration max. 100 ms Teach-in delay approx. 300 ms

1) Function: .../...P = active high (+24V); not active low (0V) The push-pull switching outputs must not be connected in parallel

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

Order guide

	Designation	i di tito.
M12 connector	GSU 710/66.4P-S12	50108702
400mm cable with M12 connector	GSU 710/66.4P, 400-S12	50112912

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 signaled at the "double sheet" output.

In the standard mode, 2-layer paper sheets with weights between approx. 40 g/m² and approx. 400 g/m² are detected without additional calibration.

With the "teach-in", the measurement range limits can be expanded to between approx. 20g/m² and approx. 800 g/m².

The calibration process is started by applying a high signal at the "teach-in" input.

Calibration is performed either directly on a medium if a sheet is in the detection range at the calibration time or calibration is performed automatically if a medium is inserted into the detection range after the calibration time

The calibration process is concluded after approx. 100ms

When switched back on, the sensor again functions in standard mode 40 g/m²... 400 g/m².

Remarks

Part No

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.

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