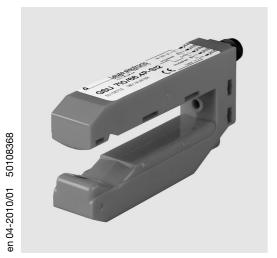
GSU 710/66

Double Sheet Testing Unit

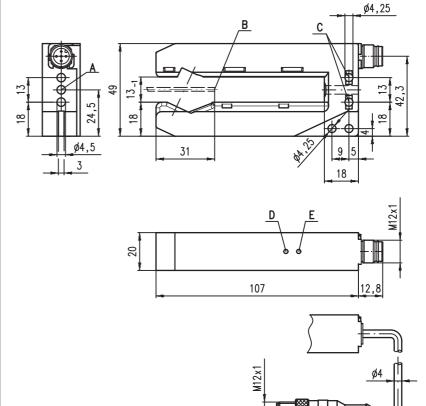






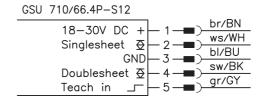
- Reliable detection of multi-layer paper and plastic sheets and metal foils
- Measurement range from 20g/m² paper to 800g/m² cardboard
- Plug connection
- Operating state indicators via light-emitting diodes
- Push-pull switching outputs

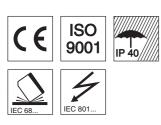
Dimensioned drawing



- 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 ...)

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Specifications

Physical data

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

Timing

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

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 ≤ 50mA 2 push-pull switching outputs ¹⁾ single sheet detected, or ≥ 1 sheet Switching outputs Function characteristics double sheet detected, or ≥ 2 sheets \geq (U_B-2V)/ \leq 2V max. 100mA per output Signal voltage high/low

plastic

approx. 100g

red

Output current

Indicators Yellow LED

single sheet detected Red LED double sheet detected

Mechanical data

Housing Color Weight Connection type

M12 connector, 5-pin, or cable 400mm with M12 connector, 5-pin

Environmental data

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

Options

Teach-in input

 R_{in} : $10k\Omega$ Teach-in input resistance .../...P (PNP): ≥ 10V/≤ 2V or floating Teach-in active/not active max. 100ms Teach-in duration 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	rait No.
M12 connector	GSU 710/66.4P-S12	50108702
400 mm 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. 40g/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. 100 ms.

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

Remarks

Dart No

Approved purpose:

The GSU 710 double sheet testing unit is a monitoring unit predominately designed for single sheet checking in paper processing machines. This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.

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Decianation