GSU 710/22.4

▲ Leuze electronic

Double Sheet Testing Unit





18 - 30 V

- 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



(available separately)

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





- Through hole Α
- Minimum intrusion depth of sheet edge В
- С Inlay nut M4 possible
- D Red indicator diode
- Е Yellow indicator diode

Electrical connection

Dimensioned drawing



GSU 710/22.4 - 04

Specifications

Physical data Mouth width

Mouth depth Minimum intrusion depth Converter frequency

Timing Switching frequency Response time Delay before start-up

Electrical data

Operating voltage U_B Residual ripple Open-circuit current Switching outputs Function characteristics

Signal voltage high/low Output current

Indicators Yellow LED Red LED

Mechanical data Housing

Color Weight Connection type

Environmental data

Ambient temp. (operation/storage) Protective circuit ¹⁾ VDE safety class Protection class Standards applied

Options

Teach-in input Teach-in input resistance Teach-in active/not active Teach-in duration Teach-in delay 13mm 89mm 31mm approx. 330kHz

200 Hz 5ms ≤ 300ms acc. to IEC 60947-5-2

 $\begin{array}{l} 18 \hdots \ 30 \ VDC \ (incl. residual ripple) \\ \leq 15 \ \% \ of \ U_B \\ \leq 40 \ mA \\ 2 \ NPN \ transistor \ outputs \\ single \ sheet \ detected, \ or \geq 1 \ sheet \\ double \ sheet \ detected, \ or \geq 2 \ sheets \\ \geq (U_B - 2 \ V) \ \leq 2 \ V \\ max. \ 100 \ mA \ per \ output \end{array}$

single sheet detected double sheet detected

plastic red approx. 100g AMP-Modu, 5-pin

0°C ... +50°C/-40°C ... +70°C 1, 2, 3 II, all-insulated IP 40 IEC 60947-5-2

 $\begin{array}{l} R_{in}: 10k\Omega \\ \leq 2 \, V / \geq 10 \, V \mbox{ or not connected} \\ max. \, 100 \, ms \\ approx.. \, 300 \, ms \end{array}$

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

Designation

GSU 710/22.4-MODU5

Part No.

501 08700

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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 40-350 g/m².

Remarks

• Approved purpose: 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.