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## **GSU 06**

# **Ultrasonic Label Fork**

# **Dimensioned drawing**



- Forked sensor for reliable detection of: - foil labels on foil carrier
  - foil labels on paper carrier
  - paper labels on paper carrier
  - metallic foil labels
  - thin metal foils
- Special variant for tape-tear monitoring
- Simple adjustment via teach-in by pressing a button or remote calibration <sup>1</sup>
- Static PNP and NPN transistor outputs for optimum adaptation to the controller
- Robust metal housing with beveled inlet edges
- M8/M12 connector or cable version

changes • DS\_GSU06\_24\_en.fm 1) Not applicable for GSU 06/24D.1-2-S8 ISO (UL) us 9001 LISTED IP 62 to make

# Accessories:

right

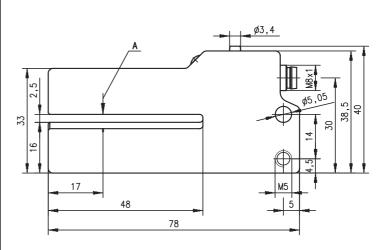
the

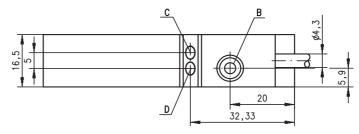
reserve

We

(available separately)

- M8/M12 connectors (KD ...)
- Ready-made cables M8/M12 (K-D ...)



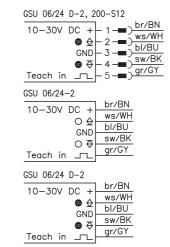


Sensor marker

- В Teach-in button 1)
- Teach-in indicator diode 1) С
- Indicator diode switching output D

### **Electrical connection**

GSU 06/24- 10-30V	-2-S8 DC + ○ GND ○ ♥	- 3 -	■)_ws ■)_ws ■)_bl/	/BN ;/W /BL ;/B
GSU 06/24 GSU 06/24 10-30V	D.1-2-	-58  - 1 -  - 2 -  - 3 -	■)_ws ■)_bl, ■)_bl,	/Bl \$/W /BL //B
GSU 06/4 [ 10-30V Teach in	0.3-S8 DC +  GND ● ₹	- 2 - - 3 -	■)_ws ■)_bl/	/BN ;/W /BU //BI



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# **GSU 06**

# **Specifications**

Physical data Mouth width Mouth depth Label gap <sup>1)</sup> Conveyor speed Repeatability <sup>1) 2)</sup> Delay before start-up

Electrical data Operating voltage U<sub>B</sub> Residual ripple Open-circuit current Switching outputs Function characteristics Signal voltage high/low Output current

Indicators Green LED Green LED, flashing Yellow LED

### Mechanical data

Housing Color Weight Connection type

#### **Environmental data**

Ambient temp. (operation/storage) Protective circuit <sup>3)</sup> VDE safety class Protection class Standards applied **Options (cable version)** 

#### Teach-in input Active/not active

Activation/disable delay Input resistance

1) Not applicable for GSU 06/24D.1-2-S8

2) Material dependent

Order guide

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

# 2.5mm 48mm ≥2mm ≥2mm ≤ 2m/s (120m/min) ± 0.3mm ≤ 100ms

10 ... 30VDC (incl. residual ripple)  $\leq$  15% of U<sub>B</sub>  $\leq$  40mA PNP and NPN transistor output light or dark switching  $\geq (U_B - 2V) / \leq 2V$ 2x100mA

ready teach-in activated switching point in the label gap

aluminum. anodized red/black 150g (connector/cable 60g) M8 connector, 4-pin, or 2000mm cable, 5-pin, or cable 200mm with M12 connector, 5-pin

+5°C ... +50°C/-40°C ... +70°C 1, 2 III IP 62 IEC 60947-5-2

> 8 V/< 2 V ≤ 0.2ms 10kΩ

	Designation	Part No.
Light switching (signal in the label gap)		
With M8 connector, teach-in by pressing a button	GSU 06/24-2-S8	50039638
With 2m cable, teach-in by pressing a button or via remote calibration	GSU 06/24-2	50040191
Dark switching (signal on the label)		
With M8 connector, teach-in by pressing a button	GSU 06/24D-2-S8	50040190
With M8 connector, teach-in by pressing a button or via remote calibration <sup>1)</sup>	GSU 06/4D.3-S8	50102921
With 2 m cable, teach-in by pressing a button or via remote calibration	GSU 06/24D-2	50040192
With 0.2 m cable with M12 connector, teach-in by pressing a button or remote calibration	GSU 06/24D-2, 200-S12	50108819
With M8 connector, specifically for tape-tear monitoring, without adjustment	GSU 06/24D.1-2-S8	50105735

### 1) When using right-angle plugs: cable outlet should point upward!

### GSU 06... - 07

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### 0755-8605 2416

### 2011/01

# Calibration <sup>1)</sup>

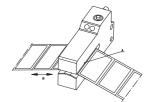
# Manual teach-in

### Insert label tape.

- The button on the device is . pressed to teach - green LED . flashes.
- Label tape advances so that 5 ... 10 label gaps pass through the measuring zone.
- The button is then pressed • again. The green LED illuminates continuously. The teaching process is concluded.

### Remote teach-in

- Insert label tape.
- Apply voltage at "Teach in" • control input. Teach-in is activated.
- Advance 5 ... 10 label gaps through the sensor. ٠
- . Remove voltage. Teach-in is finished



Sensor center, marker Α Label run R

### 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.
- The center of the label tape • should be positioned above the sensor's marker (A).
- To achieve high repeatability, the label tape must be slightly under tension (B).
- The label material used determines the achievable precision and the reliability of , gap detection!
- With special variant GSU 06/ 24D.1-2-S8 for tape-tear monitoring, no adjustment is necessary.