Optical Distance Sensor

Elektronik und Feinwerktechnik GmbH

Modules and devices for input, analysis, display and printing of analog and digital data.

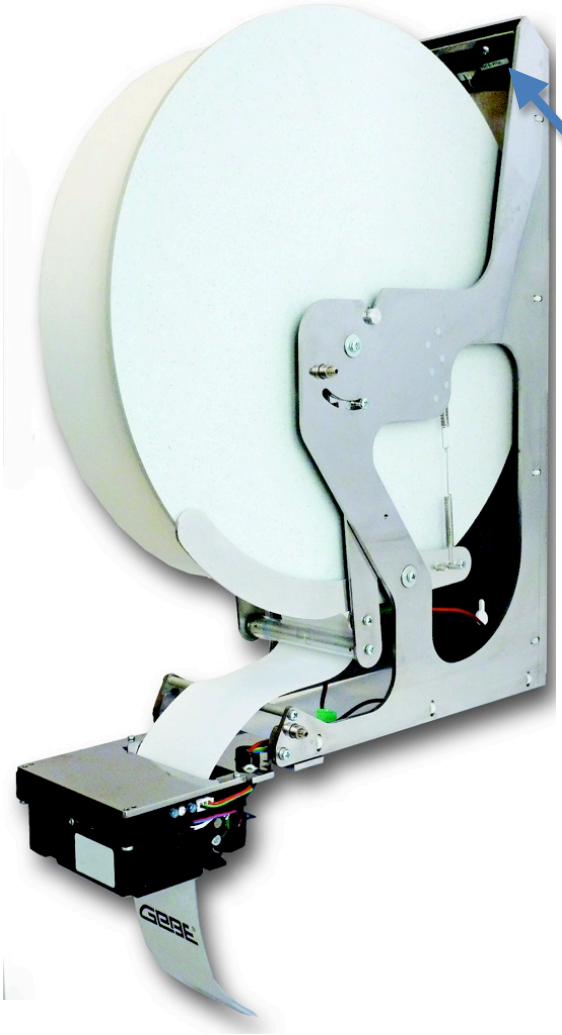
GSE-NPE-004

Operating Power: 8 – 40 VDC
Automatic PowerDown

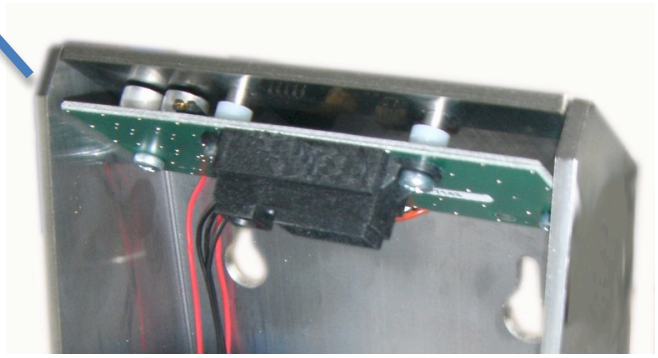
GeBE Document-No.:

TD-E-721-V1.1

Article No.: 13409
Status: 27.09.2013
Printed: 27.09.2013
German: TD-D-720



Example



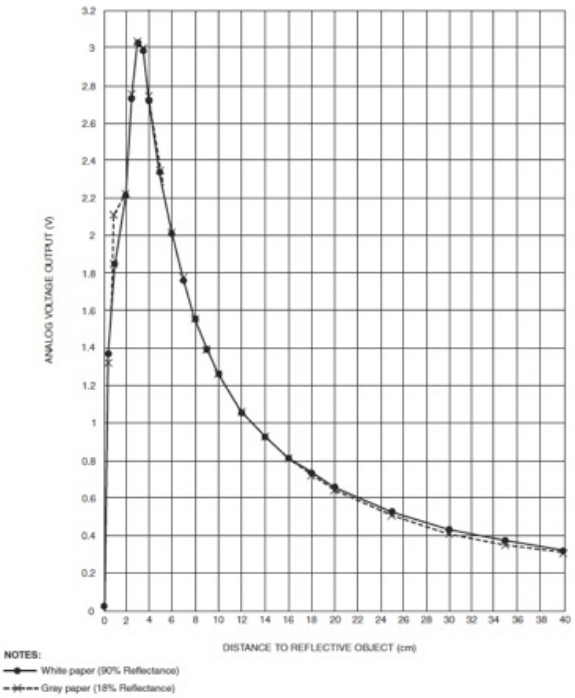
Technical Datasheet

GeBE Elektronik und Feinwerktechnik GmbH
Beethovenstr. 15 • D-82110 Germering • Germany • www.gebe.net
Telefon: +49 (0) 89/894141-31 • Fax: +49 (0) 89/894141-33 • email: sales.ef@gebe.net

Optical Distance Sensor GSE-NPE-004

Description
The GeBE GSE-NPE-004 is a digital distance sensor on optical basis. The measuring signal is connected to the NPE (NearPaperEnd) input of a GeBE printer.
Only parameter changing in the firmware settings are required for using the GSE-NPE-004 sensor.

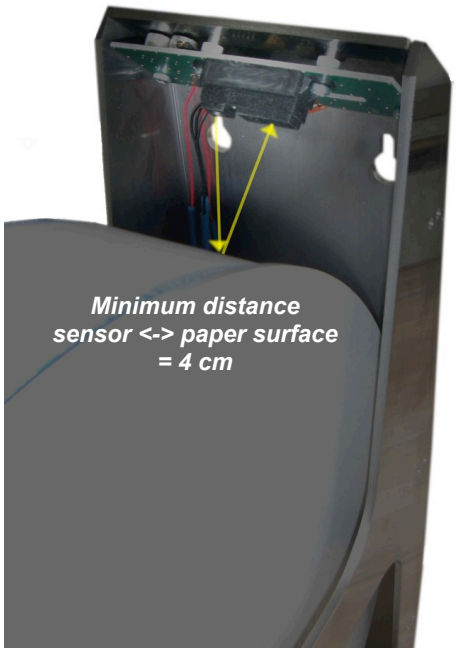
Measuring range
The sensor uses the triangle measuring method and detects distances of 4 – 30 cm from a paper surface.
Accuracy: 1 mm.



Distance calibration
The distance signal (volt) is a 8 bit digital value, which will be output from the printer interface. The volt signal has to be calibrated once (volt–cm) provided by the customer.

Power management
When switching off the printer, the sensor automatically starts the power down mode.

Influence resistant
The speciality of the GSE-NPE-004 sensor is its simple operation just using the power supply and the output signal. No complex clock signal has to be generated.
The evaluation electronics detects the distance and outputs an analog signal. The measurement is nearly unaffected by glossy or coloured paper.



Messaging at paper end
Nevertheless using the NPE interface for the distance sensor, the NPE functionality persists. The treshold level for a NPE message will be set via parameter 35.

Technical Data:

	unit	range	remarks
Type		digital, optical	
Temperature range	°C	-10°C to +60°C	
Measuring range	cm	4 - 30	
Operating power	V	8 - 40 VDC	
Space requirement	mm	90 x 32	length x width
	mm	22,1	hight: top side + bottom side + board thickness
Boreholes	mm	Ø 3.2	

Connections: