

09.14.E



Fig.1: Sheet destacker in the canmaking industry.

**Smallest and cheapest Double Sheet Sensors for the canmaking industry all over the world !**

These new Double Sheet Sensors for 24 VDC supply do NOT need any additional amplifiers or switching boxes. All features are integrated in the sensor. The sensors have a transistor output switch for direct control of PLCs IPCs etc. The reference sheet thickness can be programmed simply with a sensor input pin by applying a short high signal while a single reference sheet is on the sensor (Teach-In-System). This programming may be done during sensors installation if only one and always the same sheet thickness is monitored or again and again, every time when thickness changes during operation occur. The thickness of the reference sheet is stored permanently in a non-volatile memory (EEPROM) in the sensor.

Fig. 5 A shows a wiring diagram with a program push-button and the controlling of a double sheet relay.

Fig. 5 B shows a wiring diagram with programming and controlling on a PLC application.

There are singlesided sheet touching sensors and doublesided not sheet touching sensors available. The sensors are connected by M12 connectors. We deliver cables with onesided M 12 connector and othersided open wires with 5 or 10 m length.



Fig.2: Singlesided sheet touching Double Sheet Sensors for steel sheets up to max. 0,5 mm thickness:  
 Type S 0.5P4S diameter: 18 mm, length: 45 mm  
 for steel sheets up to max. 1,0 mm thickness:  
 Type S 1.0P3S diameter: 28 mm, length: 55 mm  
 for aluminium sheets up to max. 0,5 mm thickness:  
 Type SA 0.5P3S diameter: 28 mm, length: 55 mm

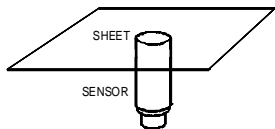


Fig.3: The use of modern micro electronic parts makes additional external amplifiers or switching boxes un-necessary.



Fig.4: Bothsided, touchless Double Sheet Sensors for steel and / or aluminium sheets. Transmitter-Sensor Type SIZ 30PSS and Receiver-Sensor Type SIZ 30P3SE Diameter: M30 thread, length 28 mm

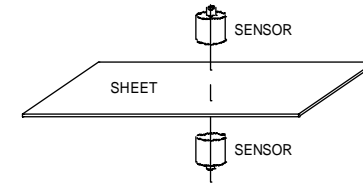


Fig.5: Sensor- wiring examples for sensor S 0.4P4S:

- A) Sheet thickness calibration by push-button switch, double sheet controlling by relay
- B) Sheet thickness calibration and double sheet controlling by PLC / IPC

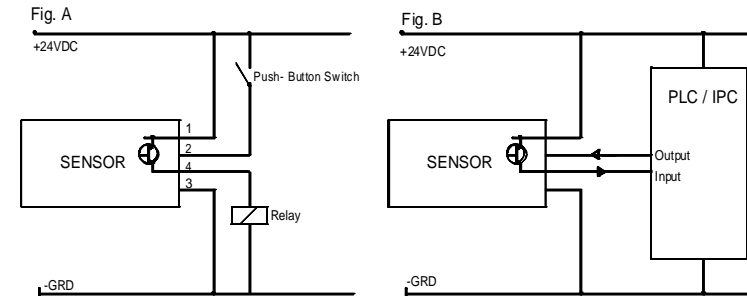
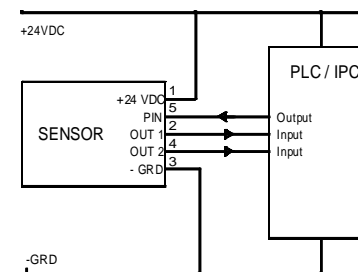


Fig.6: Sensor Type S 1.0P3SE / SIZ 30P3SE with 2 outputs for discrimination of no / one sheet and one sheet and double sheets.

Sensorconditions:	No Sheet	1 Sheet	Double Seet
Output OUT 1	H	H	L
Output OUT 2	H	L	H
LED	green (flash)	green	red




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