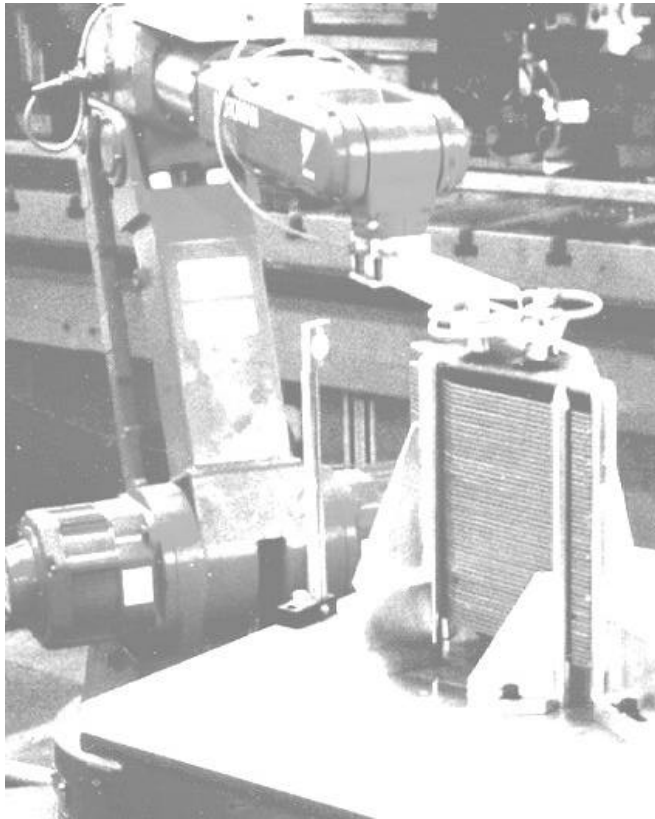


# Low price sensors for double sheet detection and sheet thickness monitoring



Application example:  
Automatic sheet feed with robot and double sheet detection



Singlesided sensors with 0 - 10 VDC analog voltage output and M12 connectors.

Today most metal sheet - working/ -processing machines are controlled by PLC or IPC controllers that have inputs for analog voltages from sensors. These double sheet/ -thickness sensors shown here deliver an 0 -10 VDC analog voltage that relates to the sheet thickness detected from the sensor that fit to those PLC / IPC analog voltage inputs. With this connection / configuration, very low price and sophisticated double sheet- / sheet thickness detection/ monitoring solutions are possible. The wanted controll- functions/ -tasks may be programmed on the PLC / IPC according to the machines and / or - operator needs. For example: Double sheet monitoring, with one or multiple, fixed or remoted controlled thickness limit(s), sheet thickness limit monitoring, sheet thickness comparators ,teach-in sheet thickness programming etc. The Sensors are singlesided sheet touching sensors with integrated amplifiers that have to touch the sheets from one side only. No additional external amplifiers or switch boxes are necessary. (Fig.a) Also available are bothsided, touchless sensors with 0 - 10 VDC analog voltage output with separate, external amplifier. Please inquire !

ASKE0810

Sheet Material	Steel (ferritic / magnetic)				Stainless Steel (austenitic / nonmagnetic)		Aluminium
	0,5	1	2	3	2	4	
Max. Thickness (mm)	0,5	1	2	3	2	4	0,5
Sensor Type	S 0.5AS	S 1.0AS	S 2.0AS	S 3.0AS	SIE 2.0AS	SIE 4.0AS	SA 0.5AS
Sensor- Diam. (mm)	18	28	43	54	28	54	28
Sensor- Length (mm)	45	55	70	75	55	75	55
Supply current (mA)	20				60		
Supply Voltage	24 VDC +/- 10%						
Output Voltage UA	0(1) - 10V short circuit protected						
Impedance (Ri, Ohm)	200						
Rise Time (msec)	< 0,5				22		
Temperature	0 -50 grd. C						
Protection	IP 63						

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fig.a)

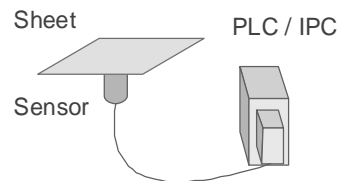
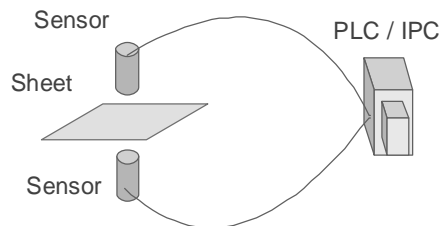


fig.b)



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