Models DS60

Small Size-Big Detector





Power input

12 to 24 DC Volts

TROLS, INC

Made In USA



The DS60 is a fast learner. Place a single metal sheet on the front of the probe and push the calibration button once. That's it. With one push of the button, the Model DS60 *automatically measures the thickness, calculates the double value and sets the reject threshold.* There is nothing more to adjust.

In addition, by rapidly pushing the calibration button twice, the detector switches to it's two sample calibration procedure. This allows the user to teach the detector a custom range for single and double values.

Both sinking and sourcing transistor outputs are provided in the Model DS60. Outputs are connected for fail-safe operation. It deenergizes when the reject threshold limit is exceeded; power is lost; or when a fault condition is detected.



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METAL SENSING SOLUTIONS

	CONTROLLER RECEPTACLE/ (Micro Style)				
BERG (BECC) V SEIN: (Pico	18 mm x 1 mm THREAD 12 mm x 1 mm THREAD 13 mm x 1 mm THREAD 13 mm x 1 mm THREAD 14 mm x 1 mm THREAD 15 85 mm (0.625") 51.0mm (2.00") 51.0mm (2.00")				
Power input:	V in = 12 to 24 Volts DC				
Output	PNP transistor sourcing				
	Single Sheet= <i>Vin</i> minus 1 volt				
	No Sheet $= 0 V dc$				
	Maximum load source 24 Volts, 100mA max.				
	<u>NPN transistor sinking</u>				
	Single Sheet = 5 to 30 V dc @ 100 mA max				
	No Sheet = $0 V dc$ Output ON				
Output fail Safe:	Contact goes to double condition. Pushbutton Setup /				
	PNP changes to nothing condition.				
	Flashing indicators sequence code identify problems.				
Metal Sensitivity:	Ferrous metal, steel, tinplate				
Thickness range:	04mm to 1.5mm (.002" to .060") Power ON				
Calibration:	Push-button switch with single sheet or double sheet sample				
Indicators:	Green power, amber for double, amber blinking probe is bad calibrate E				
Sensor Operation:	Permanent magnetic flux field is shunted across sensor poles by the thickness of				
_	metal. Maximum thickness is limited by the diameter of the probe. The chart below				
	provides a range for each probe.				
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Probe Model	Probe Diameter	Breakaway Force	Min Thickness	Max Thickness
PM4	18 mm (.7")	.9 Kg*	.04mm (.0015")	.4mm(.015)
PM10	30 mm (1.18")	4.5 Kgs*	.1mm(.004")	1.0mm (.040)
PM15	36 mm (1.85")	9.0 Kg*	.15mm (.006'')	1.5mm (.060")

* Worst case. This is straight away force, perpendicular to face. Shear force is approximately 1/4 BF $lbs = kg \ x \ 2.2$

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