ULTRASONIC LEVEL TRANSMITTER 591 SERIES

DOERS

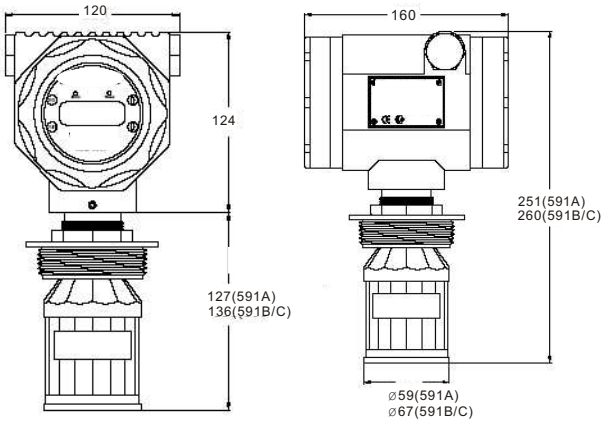
FEATURES

- Simple Calibration
- Easy Installation
- Aluminum de-casting body
- Explosion-proof structure
- The more accurate measurement possible with sound velocity setting
- Display in distance, level, or space is selectable at user's need

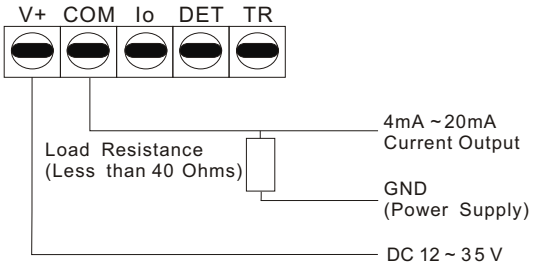
The Doers 591 is a highly developed ultrasonic level measurement system, which provides in non-contacting level measurement for a wide variety of applications in liquid and solids.

Easy calibration and maintenance free 〝fit and forget〞 performance mean that you can install the 591 rapidly and with confidence. The Doers 591 operates on the principle of timing the echo received from a measured pulse of sound transmitted in air and utilizes 〝state of the art〞 echo extraction technology.

DIMENSIONS(mm)



TERMINAL CONNECTIONS



Terminal	Function	Note
V+	Direct current input	DC 20 ~ 30 V
Io	Current output	4mA ~20mA
COM	Ground	For repair
DET	Reflection signal checking	For repair
TR	Threshold voltage checking	For repair

TECHNICAL SPECIFICATIONS

MODEL & MEASURING RANGE	**591A** 0.25 ~ 3m **591B** 0.30 ~ 8m **591C** 0.30 ~10m
PHYSICAL	
Dimensions	Overall 591A 120(D)x251(H)mm 591B/C 120(D)x260(H)mm
Mounting	2-1/2 NPT
Weight	Nominal 3.2Kg
Housing Material	Aluminum
Sensor Material	PP
ENVIRONMENTAL	
Housing Rating	IP67
Temperature	-20℃ ~-70℃
Pressure	Up to 2 Bar
CERTIFICATION	CE Ex dm ⅡB T6
PERFORMANCE	
Accuracy	591A 0.25% of target range or 2mm 591B 0.3% of target range or 3mm
Resolution	0.03% of full scale or 1mm
Beam Angle	10° at - 3dB
Damping Rate	Adjustable 0.1m/min to 10m/min
Temp. Compensation	Fully compensated
OUTPUTS	
Analog Output	4~20mA into max 600Ω, 3-wire system
Display	4 Digit LCD display
SUPPLY	
Power Supply	DC20~30V
Current Consumption	Less than 0.021A

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The specifications are subject to change without prior notice.