CSM 40 – Specifications

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zertifiziert nach EN ISO 9001:2015
DVS ZERT GmbH Registrier-Nr.:6001151

Specifications Metric*

Angular Stabilization Ranges			
> Pitch (at 0° roll):	**≤± 15.0°**		
> Roll (at 0° pitch):	**≤± 15.0°**		
> Yaw (drift):	**≤± 25.0°**		
Residual angular rate of the horizontal axes[1]	**< 0.5°/s rms**		
Deviation from perpendicular[1]:			
Without IMU support/ with "Performance Boost"	**≤ 0.3° rms**		
With IMU support[2]	**≤ 0.08° rms**		
Interface	**RS 232**		
Operational voltage	**28 VDC (24 … 30 VDC)**		
Power consumption at 28 VDC	**30 W rms / peak 90 W**		
Recommended pre-fuse	**5 Amp fuse**		
Operating temperature	**-25 °C … +60 °C**		
Storage temperature	**-50 °C … +70 °C**		
Useable diameter	**130 mm**		
Payload	**0 … 15 kg**		
Mass	**5.2 kg**		
Dimensions CSM 40 (regular leveling positions)	**Length**	**Width**	**Height**
	290 mm	**275 mm**	**120[3] mm**
Applied standards	**RTCA DO-160-G, EUROCAE-14G ISO 7137, 2006/42/EC Machinery**		

*Preliminary data, subject to change

1 Vehicle angular motion < 10°/ s and with typical data acquisition profile frequency spectrum

2 Deviation from perpendicular depends on accuracy of used IMU

3 Minimum: 96 mm/ Maximum: 144 mm

Specifications Imperial*

Angular Stabilization Ranges			
> Pitch (at 0° roll):	**≤± 15.0°**		
> Roll (at 0° pitch):	**≤± 15.0°**		
> Yaw (drift):	**≤± 25.0°**		
Residual angular rate of the horizontal axes[1]	**< 0.5°/s rms**		
Deviation from perpendicular[1]:			
Without IMU support/ with "Performance Boost"	**≤ 0.3° rms**		
With IMU support[2]	**≤ 0.08° rms**		
Interface	**RS 232**		
Operational voltage	**28 VDC (24 … 30 VDC)**		
Power consumption at 28 VDC	**30 W rms / peak 90 W**		
Recommended pre-fuse	**5 Amp fuse**		
Operating temperature	**-13 °F … +140 °F**		
Storage temperature	**-58 °F … +158 °F**		
Useable diameter	**5.1 in**		
Payload	**0.0 … 33.1 lb.**		
Mass	**11.5 lb.**		
Dimensions CSM 40 (regular leveling positions)	**Length 11.4 in**	**Width 10.8 in**	**Height 4.7 in**
Applied standards	**RTCA DO-160-G, EUROCAE-14G ISO 7137, 2006/42/EC Machinery**		

*Preliminary data, subject to change

1 Vehicle angular motion < 10°/ s and with typical data acquisition profile frequency spectrum

2 Deviation from perpendicular depends on accuracy of used IMU

3 Minimum: 3.8 in/ Maximum: 5.7 in