Product Information

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Viewline Rudder Gauges

Description

Gauge to indicate rudder angle (rudder position).

Features

- LED illumination
- Integrated Warning LED
- Changeable bezels
- _ Backlit technology
- _ Antifog and splash protection
- _ Panel and flush mount possibility



Picture: Rudder Gauge 85mm

Concept

Housing Polycarbonat (PC)

Bezel PC (black, white) or ABS (chrome); several colors and shapes (see table)

Lens PMMA; double lens

Dial backlit; different colors (black, white)

Pointer backlit, white on black dials; red on white dials

Illumination Dial: LED amber (605nm) Pointer: LED red (632nm)

Warning LED red (632nm), only with optional PC Software adjustable

Mounting Spinlock Nut; locking height 0.5mm – 20mm,

Optional Studs and Bracket; locking height 2 – 13mm

Connection 8 pin MQS connector system

Sensor 440-102-001-001 D



Technical Data					
Installation depth	50mm				
Installation diameter	85mm				
Deflection angle	90°				
Operating Voltage	8 – 32 Volt				
Accuracy	< 2.5% of full scale reading at 13.0 Volt				
Current consumption	< 175 mA, including Warning LED				
Operating temperature	-20°C to +85°C; plated bezels (chrome) -20°C to +70°C				
Storage temperature	-40°C to +85°C for 48h; plated bezels (chrome) -40°C to +70°C +90°C for 1h				
Temperature shock	Range Transformation time Retention time	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C 10 seconds 2h			
Climatic test	Range Rel. Humidity	+25°C to +55°C 80% to 100%			
EMC in conformity with (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3 DIN_EN 61000-6-4				
Standards	CE				
Vibration	Sinus 2g; 10-500Hz; duration 16h Noise 3g; 10-1000Hz, duration 8h				
Mechanical shock	continuous Single shock Free fall	25g; 6ms; 1Hz 100g; 11ms 1m; 3 times			
Chemical resistance against	 preservative agent preservative agent remover cold cleaner methylated spirit interior cleaner drinks containing caffeine and tannin 				
Nominal position	NL 0 to NL 85 (DIN16257)				
Protection class	according to IEC 60529 Front: IP67 (in nominal position) Rear: IP52 (in nominal position)				
Reverse polarity protection	yes, 1 minute				
Over voltage protection	yes, 1 minute				



Available Gauges:

No. unpacked *	Dial color	Measurement range	ISO Symbol	Voltage	Sensor	
Dia. 85 mm Gauge						
A2C53194714	black	45°Port to 45° Starboard	Ship	12/24 Volt	VDO Rudder sensor	
A2C53194715	white	45°Port to 45° Starboard	Ship	12/24 Volt	VDO Rudder sensor	

^{* &}quot;No. unpacked" is not a order number.

Accessories:

A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm			
A2C59510864	VL Mounting bracket flush mount			
A2C53215641	VL Sealing Ring 85mm flush mount			
A2C59510847	Bush housing, 8-pin			
A2C53324664	Protective connector cap, 8-pin			
Tyco No. 539635-1	Hand pliers			
Tyco No. 539682-2	Tool for hand pliers.			
Tyco No. 1355718-1	Single contacts 0.14 – 0.22 mm² tin plated			
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm² tin plated			
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm² tin plated			
Tyco No. 928999-1	Strip 0.25 – 0.5 mm² tin plated			
Tyco No. 963715-1	Strip 0.5 – 0.75 mm² tin plated			

Bezels 85mm

	Black	Chrome	White
Flat	A2C53192911	A2C53192910	A2C53192912
Round	A2C53192913	A2C53192914	A2C53192916
Triangle	A2C53192917	A2C53192918	A2C53192920