Product Information

www.vdo.com

Viewline Rudder gauges

Description

Gauge to indicate rudder angle (rudder position).



Picture: rudder gauge 52mm

Features

- _ Integrated Warning LED.
- _ Changeable Frontbezels.
- _ LED Illumination
- _ Flush mount possibility
- _ High reliability

Concept

Housing Bezel Lens Dial Pointer Illumination

Warning LED Mounting

Connection

PC; flame retarding (UL94) PC or ABS; several colors and shapes (see table) PMMA; double lens backlit; different colors (see table) backlit, white on black dials; red on white dials Dial: LED amber (605nm) Pointer: LED red (632nm) red (632nm) spinlock Nut; locking height 0,5mm – 20mm, optional Studs and Bracket; locking height 2 – 15mm 8 pin MQS connector system



Technical Data Installation depth	50mm					
Installation diameter	52mm, 85mm (see tab	le)				
Deflection angle	90°					
Operating Voltage	10 – 16 Volt					
Accuracy	< 3,6 angular degrees	i				
Current consumption	< 140 mA, including V	/arning LED				
Operating temperature	-30°C to +80°C; plated	d bezels (chrome) -30°C to +70°C				
Storage temperature	-40°C to +80°C for 48 +90°C for 1h	h; plated bezels (chrome) -40°C to +70°C				
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 95%				
EMC in conformity with	DIN_EN 61000-6-3 DIN_EN 61000-6-1 DIN_EN 61000-6-4 DIN_EN 61000-6-2					
Standards	EN 60945 GL, Category C, F (ur	EN 60945 GL, Category C, F (under preparation)				
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 agains	 bt - preservative agent preservative agent re cold cleaner methylated spirit interior cleaner drinks containing caf 					
Nominal position	NL 0 to NL 85 (DIN16	257)				
Protection class	according to IEC 60529 Front: IP67 (in Nominal position) Rear: IP52 (in Nominal position)					
Reverse polarity protection	yes, 5 minute					
Over voltage protection	yes, 24V for1 minute					

Technische Änderungen vorbehalten

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available Gauges:

No. packed	No. unpacked	colour	Diameter	Measurement range	ISO Symbol	Voltage	Sensor type	Double lens
A2C60100327	A2C53192577	Black	52mm	45°Port to 45° Starboard	Ship	12V	VDO Rudder sensor	yes
A2C60100328	A2C53192578	white	52mm	45°Port to 45° Starboard	Ship	12V	VDO Rudder sensor	yes
A2C59510106	A2C53194714	Black	85mm	45°Port to 45° Starboard	Ship	12 – 24V	VDO Rudder sensor	yes
A2C59510107	A2C53194715	white	85mm	45°Port to 45° Starboard	Ship	12 – 24V	VDO Rudder sensor	yes

Technische Änderungen vorbehalten

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Accessories:

A2C59510221	VL Dropping resistor 24V without connector (for 52mm Gauges)			
A2C59510886	VL Makepoint switch 12V (for 52mm Gauges)			
A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm			
A2C59510864	VL Mounting bracket flush mount			
A2C53215640	VL Sealing Ring 52mm 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 mm ² tin plated			
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm ² tin plated			
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm ² tin plated			
Tyco No. 928999-1	Strip 0.25 – 0.5 mm ² tin plated			
Tyco No. 963715-1	Strip 0.5 – 0.75 mm ² tin plated			

Bezels 52mm

	black	black nickel	brush aluminium	chrome	gold	white
flat	A2C53186040	A2C53293468	A2C53293480	A2C53186023	A2C53293482	A2C53186022
round	A2C53186027	A2C53293494	A2C53293495	A2C53186029	A2C53293496	A2C53186028
triangle	A2C53186024	A2C53293545	A2C53293546	A2C53186026	A2C53293548	A2C53186025

Bezels 85mm

	black	black nickel	brush aluminium	chrome	gold	white
flat	A2C53192911	A2C53293487	A2C53293488	A2C53192910	A2C53293490	A2C53192912
round	A2C53192913	A2C53293541	A2C53293499	A2C53192914	A2C53293540	A2C53192916
triangle	A2C53192917	A2C53293549	A2C53293560	A2C53192918	A2C53293561	A2C53192920



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