

## Viewline Clock

### Description

Gauge to indicate time.

### Features

- \_ LED illumination
- \_ Changeable bezels
- \_ Electrical adjustment
- \_ Backlit technology
- \_ Antifog and splash protection
- \_ Panel and flush mount possibility



Picture: Clock

### 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)
Mounting	Spinlock Nut; locking height 0.5mm – 20mm, Optional Studs and Bracket; locking height 2 – 15mm
Connection	8 pin MQS connector system

Technical Data		
Installation depth	50mm	
Operating Voltage	12V System 24V System	8 – 16 Volt DC 18 – 32 Volt DC
Accuracy	< ± 5 Sec / d (at 23°C)	
Current consumption	< 10 mA, at 12V < 10 mA, at 24V	
Operating temperature	-30°C to +80°C; plated bezels (chrome) -40°C to +70°C	
Storage temperature	-30°C to +80°C for 48h; 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 (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3	
Standards	CE ECE-R10	
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	<ul style="list-style-type: none"> <li>- preservative agent</li> <li>- preservative agent remover</li> <li>- cold cleaner</li> <li>- methylated spirit</li> <li>- interior cleaner</li> <li>- drinks containing caffeine and tannin</li> </ul>	
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 No reverse polarity protection for the Set button inputs (Pin 3 and Pin 5)	
Over voltage protection	12V System 24V System	16 Volt DC for 2h at 60°C 32 Volt DC for 2h at 60°C

**Available Gauges:**

No. unpacked *	Dial color	Measurement range	ISO Symbol	Double lens	Voltage
A2C53311885	white	12 h	-	yes	12 Volt
A2C53321688	white	12 h	-	yes	24 Volt
A2C53321687	black	12 h	-	yes	12 Volt
A2C53321689	black	12 h	-	yes	24 Volt

\* "No. unpacked" is not a order number.

**Accessories:**

A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
A2C59510864	VL Mounting bracket flush mount
A2C53215640	VL Sealing Ring 52mm 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 <sup>2</sup> tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm <sup>2</sup> tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm <sup>2</sup> tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm <sup>2</sup> tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm <sup>2</sup> tin plated

**Bezels 52mm**

	Black	Chrome	White
<b>Flat</b>	A2C53186040	A2C53186023	A2C53186022
<b>Round</b>	A2C53186027	A2C53186029	A2C53186028
<b>Triangle</b>	A2C53186024	A2C53186026	A2C53186025