

Viewline Clock

Description

Gauge to indicate Time.

Features

- electrical adjustment.
- Changeable Front bezels.
- LED Illumination
- Flush mount possibility
- High reliability



Concept

Housing	PC; flame retarding (UL94)
Bezel	PC or ABS; several colors and shapes (see table)
Lens	PMMA; double lens
Dial	backlit; different colors (see table)
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	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C	
Storage temperature	-40°C to +90°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	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 (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 against	- preservative agent - preservative agent remover - cold cleaner - methylated spirit - interior cleaner - drinks containing caffeine and tannin	
Nominal position	NL 0 to NL 90 (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. packed	No. unpacked	Dial colour	Measurement range	ISO Symbol	Lens	Voltage
A2C60001015	A2C53311885	white	12 h	-	double	12V
A2C60001016	A2C53321688	white	12 h	-	double	24V
A2C60001017	A2C53321687	black	12 h	-	double	12V
A2C60001018	A2C53321689	black	12 h	-	double	24V
A2C60002880	A2C53367829	white	12 h	-	single	12V
A2C60002881	A2C53367832	white	12 h	-	single	24V
A2C60002882	A2C53367833	black	12 h	-	single	12V
A2C60002883	A2C53367834	black	12 h	-	single	24V

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