

Viewline Synchronizer

Description

Gauge to synchronize the Engine Revolution of two engines

Features

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



Picture: Synchronizer

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 – 13mm
Connection	8 pin MQS connector system

Technical Data

Sensors:	Hall sensor Inductive sensor Blocking oscillator Ignition Terminal 1 Alternator Terminal W	
Illumination	amber, dimmable	
Installation depth	50mm	
Installation diameter	85mm	
Deflection angle	+/- 120°	
Operating Voltage	8,5 – 32 Volt	
Accuracy	+/- 2,5% of full scale reading	
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	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C
	Transformation time	10 seconds
	Retention time	2h
Climatic test	Range	+25°C to +55°C
	Rel. Humidity	80% to 100%
EMC in conformity with	ISO 7637-1/2 ISO 7637-3	
ESD in conformity with	DIN_EN 61000-4-2 ISO/CD 10605 SAE J 551/15)	
Vibration	Sinus 2g; 8-500Hz; duration 16h Noise 4,2g; 10-1000Hz, duration 8h	
Mechanical shock	continuous	25g; 6ms; 1Hz
	Single shock	100g; 11ms
	Free fall	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	
Short circuit protection	yes, 1 minute	

available Gauges:

No. packed	No. unpacked	color	Input signal	Double lens
A2C59510098	A2C53194780	black	W, 1, Lightning Coil	yes
A2C59510099	A2C53194781	white	W, 1, Lightning Coil	yes

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 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 85mm

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

* Only on request, no part off standard portfolio