

Viewline Synchronizer

Description

Gauge to synchronize the Engine Revolution of two engines.

Features

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



Picture: Synchronizer

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 – 13mm |
| Connection | 8 pin MQS connector system |

| Technical Data | | |
|--|--|---|
| Sensors | Hall sensor (none open Collector) Inductive sensor Blocking oscillator (none open Collector) Ignition Terminal 1 Alternator Terminal W | |
| Installation depth | 50mm | |
| Installation diameter | 85 mm | |
| Deflection angle | ± 120° | |
| Operating Voltage | 8 – 32 Volt | |
| Accuracy | < 2.5% of full scale reading at 13.0 Volt | |
| Current consumption | < 175 mA, incl. Warn LED | |
| Operating temperature | -20°C to +80°C; plated bezels (chrome) -20°C to +70°C | |
| Storage temperature | -40°C to +80°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 | 95% |
| 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; 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 | <ul style="list-style-type: none"> - 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 | Input signal ** | Double lens |
|----------------|------------|----------------------|-------------|
| A2C53194780 | black | W, 1, Lightning Coil | yes |
| A2C53194781 | white | W, 1, Lightning Coil | yes |

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

** 1 – Ignition Terminal 1
W – Alternator Terminal W

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