

Viewline Speedometer

Description

Gauge to indicate Speed, Odometer, Voltage, Clock.

Features

- _ LED illumination
- _ Integrated Warning LED
- _ Changeable bezels
- _ Backlit technology
- _ Antifog and splash protection
- _ Panel and flush mount possibility
- _ External switch for LCD operation



Picture: Speedometer with Display

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)
Warning LED	red (632nm), programmable via LC display
Mounting	Spinlock Nut; locking height 0.5mm – 20mm, Optional Studs and Bracket; locking height 2 – 13mm
Connection	8/14 pin MQS connector system

Technical Data							
Measurement Range	see Table						
Pulse count range	500 - 400000 Imp / km, programmable via LC display						
Sensors	Hall sensor (none open Collector) Inductive sensor Blocking oscillator (none open Collector) NMEA0183						
LCD-Size	37 x 11 mm						
Alarm output	max 100mA						
Installation depth	50mm						
Installation diameter	85mm, 110mm (see table)						
Deflection angle	240°						
Operating Voltage	8 – 32 Volt						
Accuracy	± 2.5% of full scale reading at 13.0 Volt						
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	<table border="1"> <tr> <td>Range</td> <td>-40°C to +85°C; plated bezels (chrome) -40°C to +70°C</td> </tr> <tr> <td>Transformation time</td> <td>10 seconds</td> </tr> <tr> <td>Retention time</td> <td>2h</td> </tr> </table>	Range	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C	Transformation time	10 seconds	Retention time	2h
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Climatic test	<table border="1"> <tr> <td>Range</td> <td>+25°C to +55°C</td> </tr> <tr> <td>Rel. Humidity</td> <td>80% to 100%</td> </tr> </table>	Range	+25°C to +55°C	Rel. Humidity	80% to 100%		
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EMC in conformity with (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3 DIN_EN 61000-6-4						
Standards	CE ECE-R10						
Vibration	Sinus 2g; 8-500Hz; duration 16h Noise 4.2g; 10-1000Hz, duration 8h						
Mechanical shock	<table border="1"> <tr> <td>continuous</td> <td>25g; 6ms; 1Hz</td> </tr> <tr> <td>Single shock</td> <td>100g; 11ms</td> </tr> <tr> <td>Free fall</td> <td>1m; 3 times</td> </tr> </table>	continuous	25g; 6ms; 1Hz	Single shock	100g; 11ms	Free fall	1m; 3 times
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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	Double Scale	Measurement range	Input signal **	Double lens
Dia. 85 mm Gauge					
A2C53194716	black	no	0 to 25km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194731	black	no	0 to 60km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194735	black	no	0 to 80km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194749	black	no	0 to 120km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194767	black	no	0 to 200km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194769	black	no	0 to 300km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194759	black	no	0 to 120mph	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194765	black	no	0 to 160mph	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194718	black	yes	0 bis 30mph 0 bis 50 km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194733	black	yes	0 bis 60mph 0 bis 95km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194747	black	yes	0 bis 85mph 0 bis 140km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194751	black	yes	0 bis 120mph 0 bis 200km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194761	black	yes	0 bis 140mph 0 bis 220km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194732	white	no	0 bis 60km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194736	white	no	0 bis 80km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194750	white	no	0 bis 120km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194768	white	no	0 bis 200km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194760	white	no	0 bis 120mph	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194766	white	no	0 bis 160mph	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194719	white	yes	0 bis 30mph 0 bis 50 km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194734	white	yes	0 bis 60mph 0 bis 95km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194748	white	yes	0 bis 85mph 0 bis 140km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194752	white	yes	0 bis 120mph 0 bis 200km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194763	white	yes	0 bis 140mph 0 bis 220km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
Dia. 110 mm Gauge					
A2C53194647	black	no	0 to 25km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194645	black	no	0 to 60km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194642	black	no	0 to 80km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194640	black	no	0 to 120km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194637	black	no	0 to 200km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194634	black	no	0 to 300km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194639	black	no	0 to 120mph	Ind, Hall, Blocking Oscillator, NMEA 0183	no

No. unpacked *	Dial color	Double Scale	Measurement range	Input signal **	Double lens
A2C53194643	black	yes	0 bis 60mph 0 bis 95km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194641	black	yes	0 bis 85mph 0 bis 140km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194638	black	yes	0 bis 140mph 0 bis 220km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no
A2C53194636	black	yes	0 bis 220mph 0 bis 360km/h	Ind, Hall, Blocking Oscillator, NMEA 0183	no

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

** Ind – inductive sensor
Hall – Hall Sensor
NMEA 0183 – Dataset VTG, VHW

Accessories:

A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
A2C59510864	VL Mounting bracket flush mount
A2C53215641	VL Sealing Ring 85mm flush mount
A2C53215642	VL Sealing Ring 110mm flush mount
A2C59510847	Bush housing, 8-pin
A2C59510848	Bush housing, 14-pin
A2C53324664	Protective connector cap, 8-pin
A2C53324671	Protective connector cap, 14-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

Bezels 110mm

	Black	Chrome	White
Flat	A2C53210745	A2C53210747	A2C53210746
Round	A2C53210749	A2C53210761	A2C53210764
Triangle	A2C53210763	A2C53210765	A2C53192920