

S1607 PULSE Converter

The **S1607 Pulse Converter** allows simultaneous connection of an AIC fuel flowmeter with an AIC board computer and a third party acquisition system.

The **Pulse Converter** boosts the consumption output signal and provides an additional PNP consumption signal output which can be used for third party acquisition systems connection when necessary.

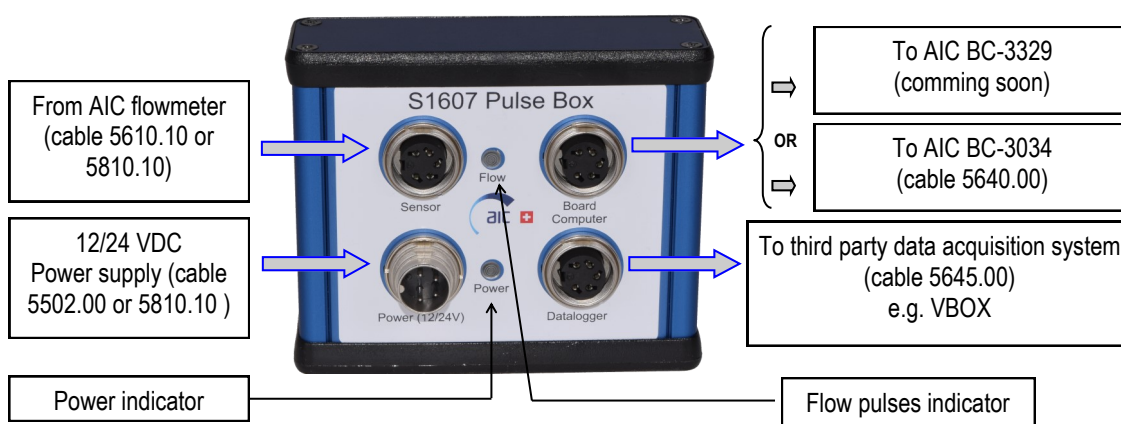
When third party data acquisition systems are not able to read the 0.7 ms consumption output pulse delivered by AIC High Rate flow sensors, the Pulse Converter can convert the signal into various formats:

- 50 % Duty Cycle, order # S1607.50
- 25 % Duty Cycle, order # S1607.25
- 12,5 % Duty Cycle, order # S1607.12
- Split Box, order # S1607.00

This signal can be acquired in either PNP or NPN format.

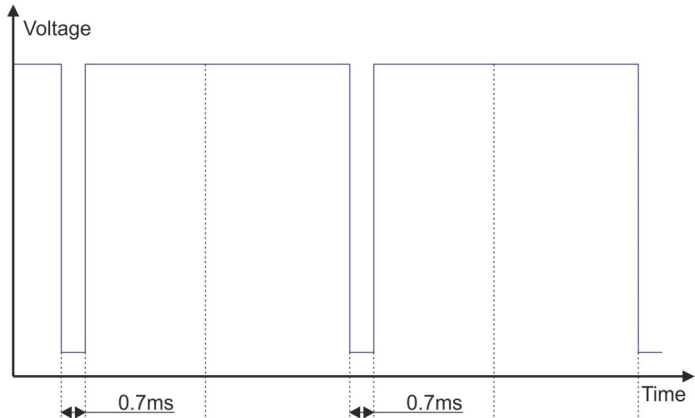
Note: The duty cycle conversion process induces a delay of one pulse due to internal measuring procedures. The Split Box (#S1607.00) has no pulse delay and pulse width is not changed at all.

Installation:

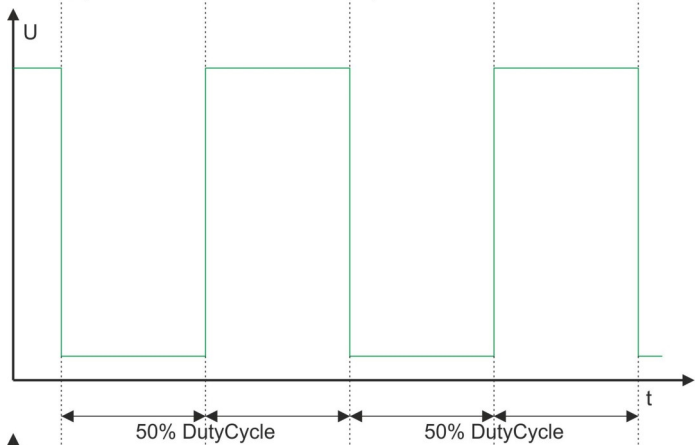


Operation:

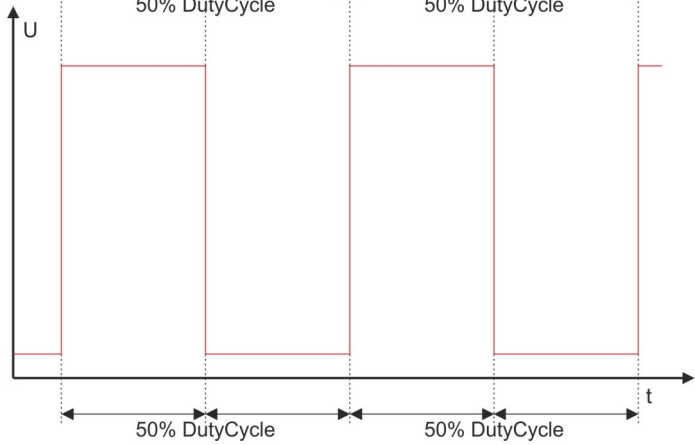
50 % Duty Cycle format order # S1607.50



NPN standard Rectangular
signal from AIC High Rate
Sensor (0.7 ms pulse width)



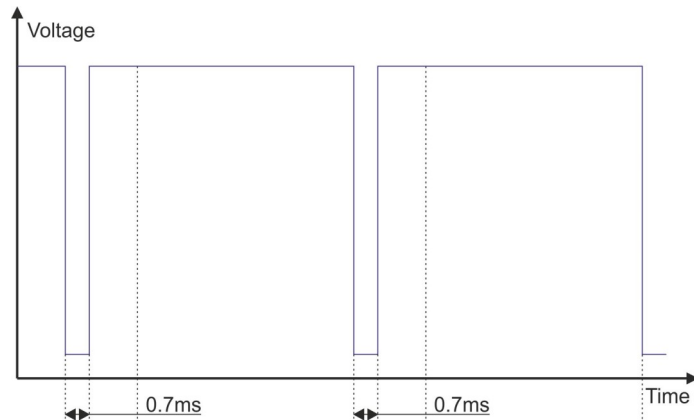
50 % duty cycle signal on
s1607.50 NPN output



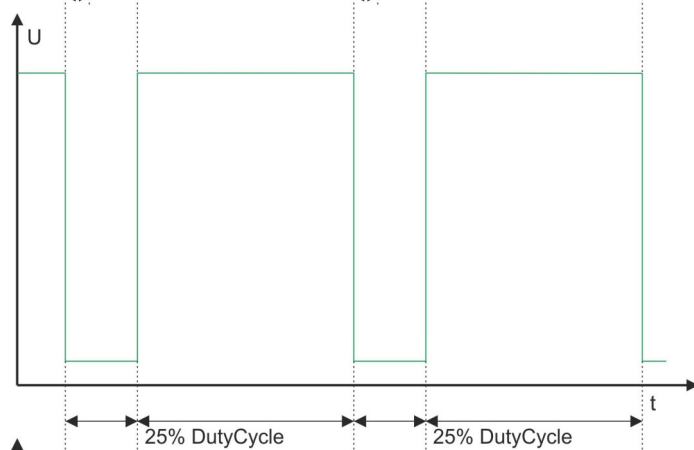
50 % duty cycle signal on
s1607.50 PNP output

Operation:

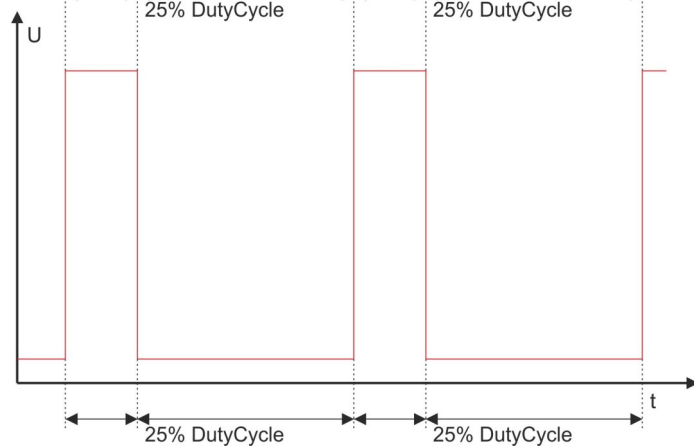
25 % Duty Cycle format order # S1607.25



NPN standard Rectangular
signal from AIC High Rate
Sensor (0.7 ms pulse width)



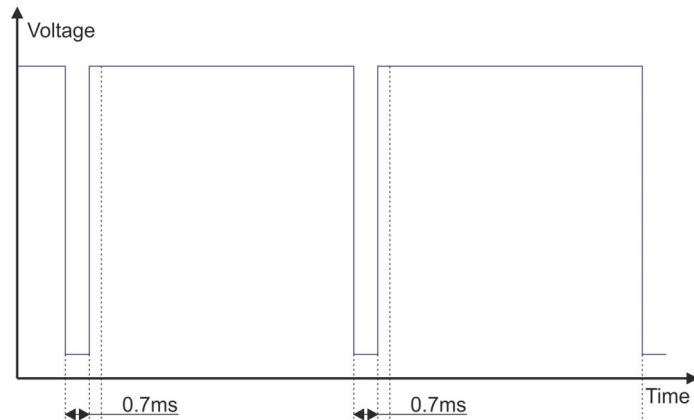
25 % duty cycle signal on
s1607.25 NPN output



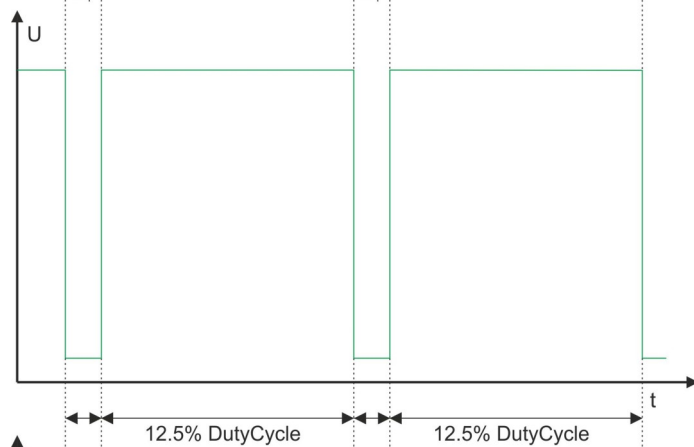
25 % duty cycle signal on
s1607.25 PNP output

Operation:

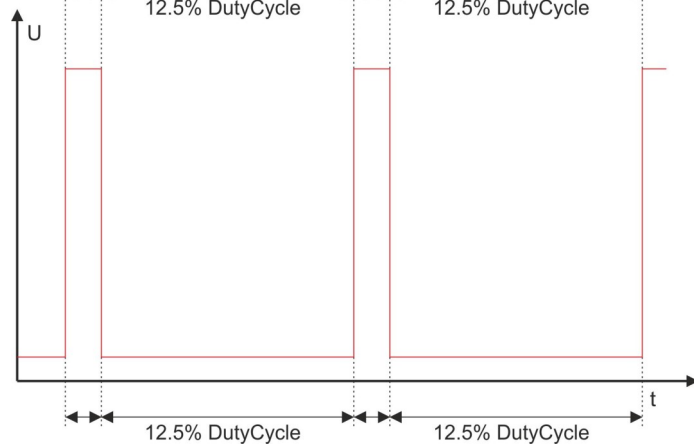
12,5 % Duty Cycle format order # S1607.12



NPN standard Rectangular
signal from AIC High Rate
Sensor (0.7 ms pulse width)



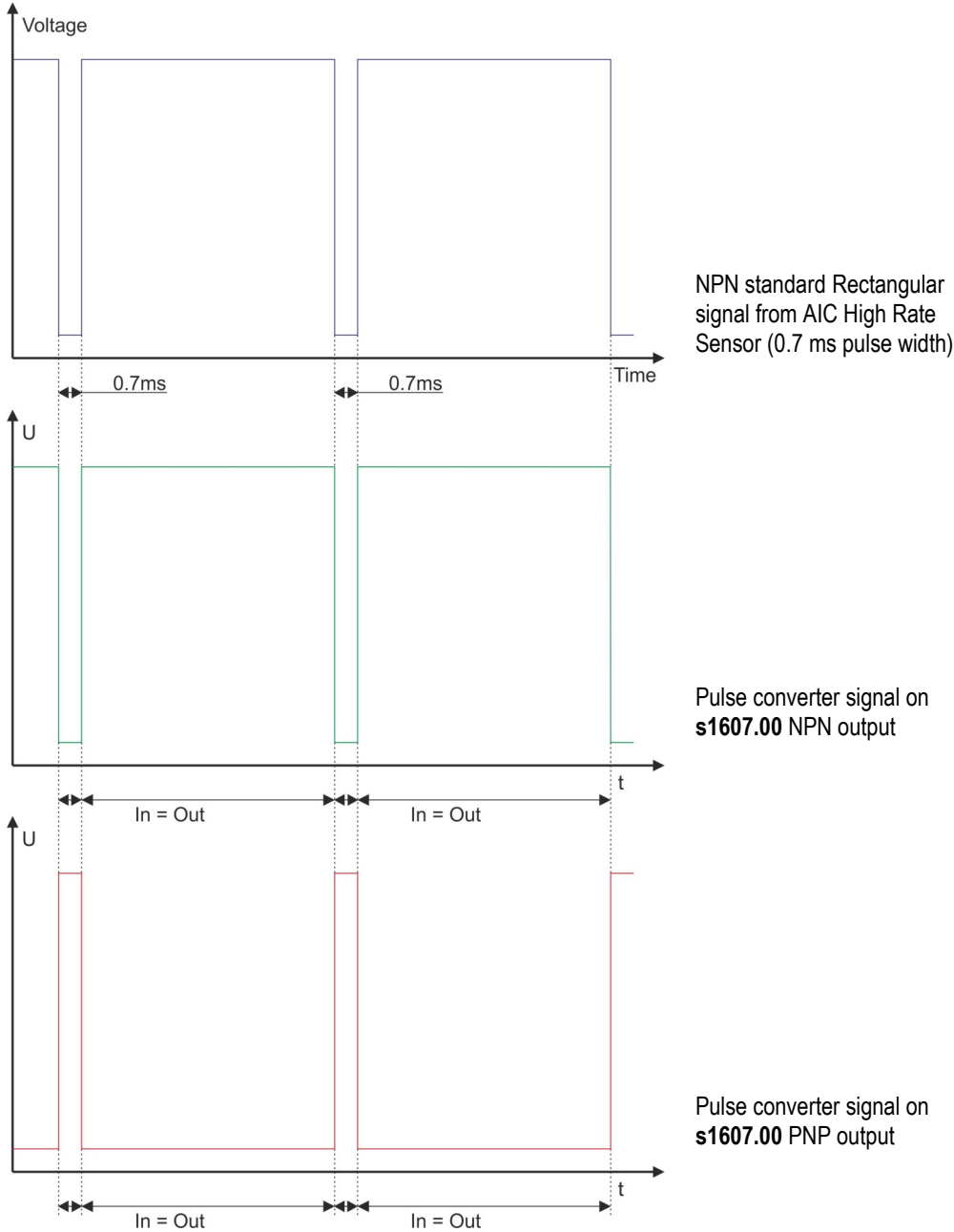
12,5 % duty cycle signal on
s1607.12 NPN output



12,5 % duty cycle signal on
s1607.12 PNP output

Operation:

Split box format order # S1607.00



Connectors pinout



5502.00 Supply cable (option)



Connector: Power (12/24 V)			
Pin	Wire color	Signal	Vehicle terminal
1	Green	0 Volt - Ground	31
2	Brown	+12/24 V - Stand by	30
3	N/C		
4	N/C		



5660.00 Connection cable to Totalizer (option)



Connector: Sensor		
Pin	Wire color	Signal
1	N/C	
2	Grey	Distance / Tacho signal
3	White	Consumption pulse
4	Brown	Sensor supply
5	Green	0 Volt - Ground



5640.00 Connection cable to BC-3034 (option)



Connector: Board Computer		
Pin	Wire color	Signal
1	N/C	
2	Grey	Distance / Tacho signal
3	White	NPN 50 % duty cycle consumption pulse
4	N/C	
5	Green	0 Volt - Ground



5645.00 Connection cable to third party data acquisition system (option)



Connector: Datalogger		
Pin	Wire color	Signal
1	Yellow	PNP Stretched Consumption pulse
2	Grey	Distance / Tacho signal
3	White	NPN Stretched Consumption pulse
4	N/C	Not Connected
5	Green	0 Volt - Ground

Product identification and characteristics



Electrical	
Supply	8 / 28 VDC protected against pol. reversal
Consumption	< 30 mA
NPN output	28 V / 20 mA max - current limited
PNP output	20 mA max - current limited

Mechanical	
Housing material	Blue anodized aluminum
Protection	IP50
Size	106 X 87 X 34 mm
Weight	200 gr

AIC Systems AG
solutions for fuel measuring systems since 1978

AIC SYSTEMS AG.
Ringstrasse 9,
4123 Allschwil
Switzerland

