

### Select speed signal processing switch settings using Milltronics BW500 and BW500/L

Objective:	<ul style="list-style-type: none"> <li>Provide BW500 and BW500/L speed signal processing switch settings for use with Siemens current and legacy speed sensor portfolio</li> </ul>
Equipment:	<ul style="list-style-type: none"> <li>Milltronics BW500</li> <li>Speed sensor</li> </ul>

While every effort was made to verify the following information, no warranty of accuracy or usability is expressed or implied.

#### Introduction

In February 2015, Siemens released an electrical design update to the BW500 and BW500/L. This update included the introduction of a speed signal processing switch (SW3) designed to optimize the circuitry for HTL or TTL signals.

#### Switch settings

Consult the list of Siemens speed sensors below to find the corresponding BW500 and BW500/L switch settings. If the speed sensor you are using is not included in this list, please contact your local Siemens representative.

Speed sensor	Switch setting	Sensor type
SITRANS WS300	HTL	NPN, open collector
SITRANS WS300 IS from barrier	HTL	NAMUR, NC
SITRANS WS100	HTL	NPN, open collector
SITRANS WS100 IS from barrier	HTL	NAMUR, NC
Milltronics RBSS	HTL	NPN, open collector
Milltronics RBSS IS from barrier	HTL	NAMUR, NC
Milltronics TASS	HTL	NPN, open collector
Milltronics MD-36	HTL	NPN, open collector
Milltronics MD-36 IS from barrier	HTL	NAMUR, NC
Milltronics MD-256	HTL	NPN, open collector
Milltronics MD-2000A	TTL	NPN, open collector
Siemens encoder 6FX20012QB02	TTL	RS422
Siemens encoder 6FX20012QB25	TTL	RS422
Siemens encoder 6FX20012QC50	TTL	RS422

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Speed sensor	Switch setting	Sensor type
Siemens encoder 6FX20012QA50	TTL	RS422
Siemens encoder 6FX20014QB00	HTL	Push/Pull
Siemens encoder 6FX20014QC50	HTL	Push/Pull
Siemens encoder 6FX20014QA50	HTL	Push/Pull
Siemens encoder from J-box 7MH7723-1ND	HTL	NPN, open collector
Siemens encoder from J-box 7MH7723-1NE	HTL	NPN, open collector
EPC 802 encoder from J-box 7MH7723-1ND	HTL	NPN, open collector
EPC 802 encoder from J-box 7MH7723-1NE	HTL	NPN, open collector
Hazardous rated 7MH7723-1QU	HTL	NPN, open collector
Hazardous rated 7MH7723-1QV	HTL	NPN, open collector
Hazardous rated 7MH7723-1QW	HTL	NPN, open collector
Hazardous rated 7MH7723-1QX	HTL	NPN, open collector
Hazardous rated 7MH7723-1QY	HTL	NPN, open collector