Signal Conditioning

BOS S Signal Adapter

BOS S signal adapters are crucial for quick, versatile modifications, retrofits and enhancements of a sensor's functionality. Several available models provide quick-change options that will convert PNP/NPN outputs, add delay timing and counting functions, or monitor frequency of machine speeds and motion.

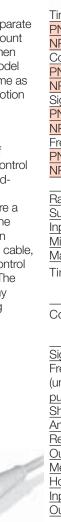
For example, when an NPN normally closed sensor is needed and a PNP normally open sensor is the only type available, a BOS S inverter is the solution. The inverter model converts from PNP to NPN or NPN to PNP output, and can be programmed from normally open or normally closed outputs. The timer model can add an on-delay or offdelay up to 65.535 seconds to any DC sensor, and eliminates the need for a separate counter totalizer. It can store a pre-set count up to 65,535 and produce an output when that count is reached. The frequency model will increase the life of a machine in uptime as it monitors over-speed, under-speed, motion and communicates when a machine is jammed.

BOS S signal adapters take the place of expensive signal converters and other control elements. They are also suitable as standalone solutions in areas lacking external controllers. They are ideal for areas where a solution must retrofit without changing the controller. Signal adapters are plugged-in between the sensor and the connection cable, and can be programmed through the control line using a simple teach-in procedure. The output current of 400 mA also allows any signal adapter to be used as a switching amplifier.

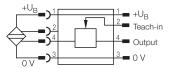
Applications

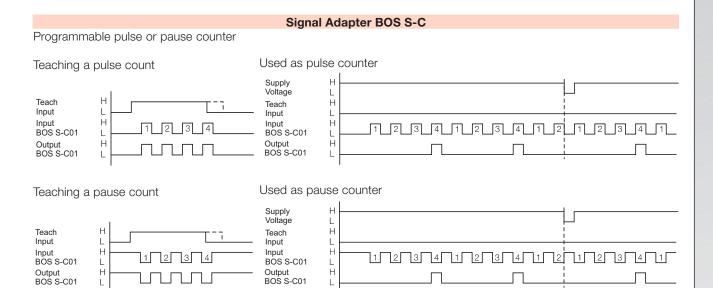
- Batch counting
- Indexing
- Increased switch output
- Underspeed detection
- Jam detection
- Motion detection
- Pulse stretcher
- Broken conveyor detection

ON THE REAL PROPERTY.



Series		Signal Adapter
Model		Timer 1ms65.535s
		Counter 165535
		Signal Inverter PNP to NPN, NPN to PNP
		Frequency (Under speed) 0.151000Hz
		Ø20 84 09 09 00 00 00 00 00 00 00 00
Timer		D00 0 T01
PNP		BOS S-T01
NPN Country		BOS S-T02
Counter		POS S CO1
PNP		BOS S-C01 BOS S-C02
NPN Signal Inverter		BOS 3-OU2
PNP to NPN		BOS S-F01
NPN to PNP		BOS S-F02
Frequency (under speed)		<u> </u>
PNP		BOS S-M01
NPN		BOS S-M02
		200 0 11102
Rated operational voltage		1030 Vdc
Supply voltage		1224 Vdc
Input resistance		>10k Ω
Minimum response time		100 µs
Maximum load current		400mA
Timer	Minimum delay	1ms
	Maximum delay	65.535s
	Operating frequency (max.)	10 kHz
Counter	Minimum count	1
	Maximum count	65535
	Operating frequency (max.)	10 kHz
Signal Inverter	Operating frequency (max.)	10 kHz
Frequency	Minimum frequency	0.15 Hz
(under speed)	Maximum frequency	1000 Hz
pulses/second	Operating frequency (max.)	1000 Hz
Short circuit protection		Yes
Ambient temperature range		060°C
Remote Teach		Yes
Output indication		Red Led
Mechanical protection		IP67
Housing material		Plastic PBTA/PA
Input connection		M12 4 pin Female
Output connection		M12 4 pin Male



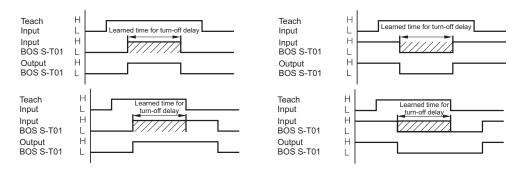


Signal Adapter BOS S-T

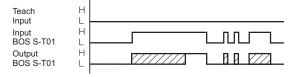
Programmable timer for turn-on or turn-off delay

Teaching a turn-on delay

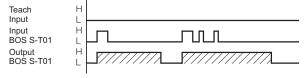
Teaching a turn-off delay



Using with turn-on delay

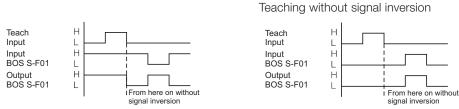


Using with turn-off delay



Signal Adapter BOS S-F

NPN/PNP logic converter, selectable normally open/normally closed



H = Input or Output active; L = Input or Output inactive

Contents

Selection Guide

Universal Mounting Accessories

Inductive
Accessories
- Mounting
Brackets

Brackets
- Protection
Devices
- Prox Actuator

- Banking Screws

Capacitive Accessories Photoelectric

Accessories
- Brackets
- Protection
& Apertures

LensesReflectors

Magnetoinductive Mounting Accessories

Signal Conditioning

Power Supplies

- Sensor
Testers

- Controllers







