

# New Self Monitoring™ Contact Blocks Enhance E-Stop Reliability



## Bulletin 800E SMCB

Rockwell Automation now offers improved E-Stop reliability for critical process control applications with new Allen-Bradley Self Monitoring™ Contact Blocks (SMCB). For use with 800E push buttons, the patent pending Self Monitoring Contact Blocks monitor whether or not they are properly installed on the E-Stop operator.

## Why You Need SMCB's

Proper contact block installation is critical to ensure that the normally closed contacts will open when the E-Stop is actuated. Separation of the contact blocks from the E-Stop operator will prevent the E-Stop from shutting down the controlled process in an emergency. Consider the following dangerous scenarios that could potentially result in contact block separation:

- Mounting screws were over-tightened, resulting in stripped threads.
- Contact block latch not completely «snapped-on» to the E-Stop operator
- Contact block or latch is accidentally damaged during maintenance
- Contact block or latch is removed and not reinstalled during maintenance

The new Self Monitoring Contact Block eliminates these separation concerns by actually monitoring its own installation. If the SMCB is separated from the E-Stop operator for any reason, the controlled circuit will automatically open.

## Additional Product Features

- Same ratings as existing 800E standard contact blocks
- IP2X finger safe protection
- Terminals identified with IEC style markings
- Can be used with a E-Stop safety relay

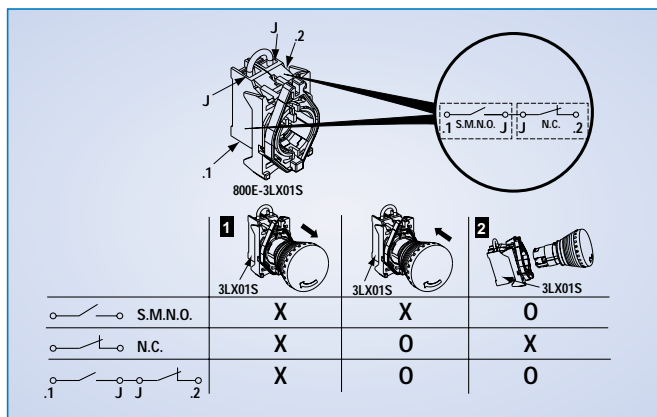


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## Product Operation

A set of self-monitoring normally open (S.M.N.O.) contacts are wired in series with a standard set of normally closed (N.C.) contacts. The self monitoring normally open contacts automatically close when the contact block is properly installed on the E-Stop operator. In this state, the E-Stop and N.C. contacts operate as usual, with actuation of the E-Stop causing the N.C. contacts to open.

If the contact block should separate from the E-Stop operator, the self monitoring normally open contacts will automatically open. Because the S.M.N.O. contacts are wired in series with the N.C. contacts, the opening of either set of contacts will open the circuit being controlled by the E-Stop.



## Easy Ordering

For Self Monitoring Contact Blocks, additional contact blocks, EMERGENCY STOP Operators, EMERGENCY STOP Rings order the catalog numbers listed below.

### EMERGENCY STOP Operators



Ø 30 mm

	Metal Operator	Plastic Operator
Cat. No.	800EM-MTS34	800EP-MTS34



Ø 40 mm

	Metal Operator	Plastic Operator
Cat. No.	800EM-MTS44	800EP-MTS44



Ø 60 mm

	Metal Operator	Plastic Operator
Cat. No.	800EM-MTS64	800EP-MTS64

### Self Monitoring™ Contact Blocks



Plastic  
3XLatch w/SMCB  
(2 interlocked contact blocks)

Cat. No.	800E-3LX01S
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### EMERGENCY STOP Rings



- Package of 10 pieces
- Multi-lingual  
German, English,  
French

Ø 60 mm

Ø 90 mm

Cat. No.	800E-15YM112	800E-16YM112
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### Additional Contact Blocks



Plastic

Cat. No.	800E-3X10	
	800E-3X01	

Reach us now at [www.rockwellautomation.com](http://www.rockwellautomation.com)

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