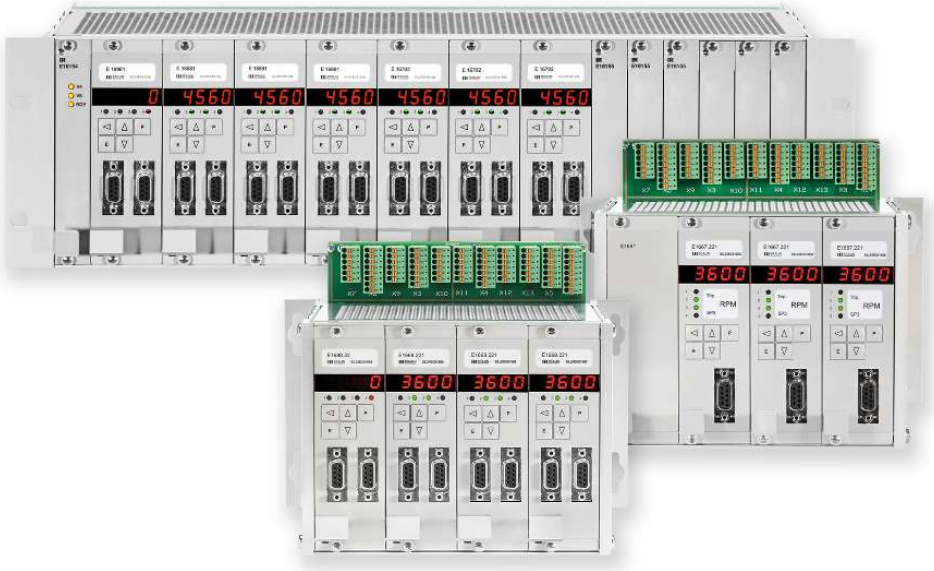
Protection Systems Triple Channel



Model	SIL3	SIL2	PFD Value	Test Interface	Test Generator	Automatic Test of 2oo3 Solenoid by E16	PROFIBUS Interface
E16x342	●		$7.71 \cdot 10^{-5}$	●			1
E16x352	●		$7.71 \cdot 10^{-5}$	●			2
E16x346	●		$8.41 \cdot 10^{-6}$		●	●	1
E16x356	●		$8.41 \cdot 10^{-6}$		●	●	2
E16x442		●	$1.81 \cdot 10^{-4}$	●			1
E16x452		●	$1.81 \cdot 10^{-4}$	●			2
E16x446		●	$2.51 \cdot 10^{-5}$		●	●	1
E16x456		●	$2.51 \cdot 10^{-5}$		●	●	2

Protection Systems for highest safety requirements up to SIL3

Monitoring and Protection System for highest safety requirements up to SIL3

E16x342

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- External test of a 2oo3 solenoid valve block possible via the control system
- Minimal Total Cost of Ownership
- Requires less than 8% of the permissible PFD value for a SIL3 Safety Loop
- Replacement of all active components during operation (Hot Swap)
- TÜV certified for SIL3 / IEC 61508:2010
- TÜV certified for PL e; Cat. 3 / DIN EN ISO 13849-1:2008
- TÜV certified for $SIL_{CL}3$ / IEC 62061:2005
- API670 and API612 compliant
- 1 PROFIBUS Interface

Monitoring and Protection System for Highest safety requirements up to SIL3

E16x352

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- External test of a 2oo3 solenoid valve block possible via the control system
- Minimal Total Cost of Ownership
- Requires less than 8% of the permissible PFD value for a SIL3 Safety Loop
- Replacement of all active components during operation (Hot Swap)
- TÜV certified for SIL3 / IEC 61508:2010
- TÜV certified for PL e; Cat. 3 / DIN EN ISO 13849-1:2008
- TÜV certified for $SIL_{CL}3$ / IEC 62061:2005
- API670 and API612 compliant
- 2 PROFIBUS Interfaces

Monitoring and Protection System for highest safety requirements up to SIL3

E16x346

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- Automated tests of a 2oo3 solenoid valve block with permanent monitoring of the feedback via the test generator
- Minimal Total Cost of Ownership
- Requires less than 1% of the permissible PFD value for a SIL3 Safety Loop
- Enhanced safety values due to an integrated test generator
- Replacement of all active components during operation (Hot Swap)
- TÜV certified for SIL3 / IEC 61508:2010
- TÜV certified for PL e; Cat. 3 / DIN EN ISO 13849-1:2008
- TÜV certified for $SIL_{CL}3$ / IEC 62061:2005
- API670 and API612 compliant
- 1 PROFIBUS Interface

Monitoring and Protection System for highest safety requirements up to SIL3

E16x356

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- Automated tests of a 2oo3 solenoid valve block with permanent monitoring of the feedback via the test generator
- Minimal Total Cost of Ownership
- Requires less than 1% of the permissible PFD value for a SIL3 Safety Loop
- Enhanced safety values due to an integrated test generator
- Replacement of all active components during operation (Hot Swap)
- TÜV certified for SIL3 / IEC 61508:2010
- TÜV certified for PL e; Cat. 3 / DIN EN ISO 13849-1:2008
- TÜV certified for $SIL_{CL}3$ / IEC 62061:2005
- API670 and API612 compliant
- 2 PROFIBUS Interfaces

Protection Systems for highest safety requirements up to SIL2

Monitoring and Protection System for incresed safety requirements up to SIL2

E16x442

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- External test of a 2oo3 solenoid valve block possible via the control system
- Minimal Total Cost of Ownership
- Requires less than 8% of the permissible PFD value for a SIL2 Safety Loop
- Replacement of all active components during operation (Hot Swap)
- SIL2 / IEC 61508:2010 compliant
- API670 and API612 compliant
- 1 PROFIBUS Interface

Monitoring and Protection System for incresed safety requirements up to SIL2

E16x452

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- External test of a 2oo3 solenoid valve block possible via the control system
- Minimal Total Cost of Ownership
- Requires less than 8% of the permissible PFD value for a SIL2 Safety Loop
- Replacement of all active components during operation (Hot Swap)
- SIL2 / IEC 61508:2010 compliant
- API670 and API612 compliant
- 2 PROFIBUS Interfaces

Monitoring and Protection System for incresed safety requirements up to SIL2

E16x446

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- Automated tests of a 2oo3 solenoid valve block with permanent monitoring of the feedback via the test generator
- Minimal Total Cost of Ownership
- Requires less than 1% of the permissible PFD value for a SIL2 Safety Loop
- Enhanced safety values due to an integrated test generator
- Replacement of all active components during operation (Hot Swap)
- SIL2 / IEC 61508:2010 compliant
- API670 and API612 compliant
- 1 PROFIBUS Interface

Monitoring and Protection System for incresed safety requirements up to SIL2

E16x456

Features

- TMR (triple-modular-redundant) system with sensor monitoring and self-test
- Highest safety levels with maximum availability by globally unique and true 2oo3 architecture for each trip criterion within each of the three Monitors
- Maintenance-free during lifetime due to integrated automatic proof tests
- Automated tests of a 2oo3 solenoid valve block with permanent monitoring of the feedback via the test generator
- Minimal Total Cost of Ownership
- Requires less than 1% of the permissible PFD value for a SIL2 Safety Loop
- Enhanced safety values due to an integrated test generator
- Replacement of all active components during operation (Hot Swap)
- SIL2 / IEC 61508:2010 compliant
- API670 and API612 compliant
- 2 PROFIBUS Interfaces

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