

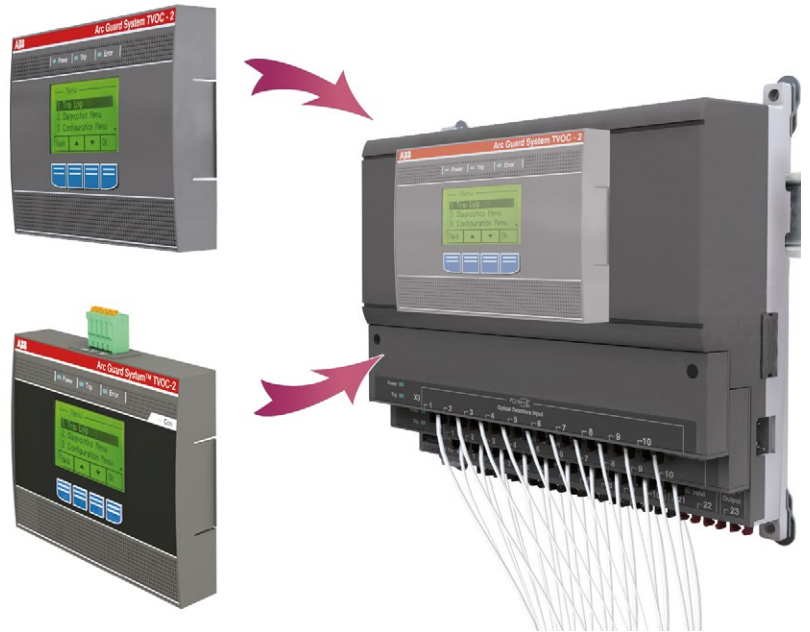
Arc guard system with communication module

Monitor your installation, anytime and anywhere

The TVOC-2 system can be equipped with up to 30 optical sensors, enabling a single unit to cover multiple switchboard cabinets. Once installed, the system is able to detect arc initiation and, in less than one millisecond, send a signal to an Emax 2 circuit breaker to open. This makes it the fastest and the most effective available system at reducing risks to personnel and equipment.

Benefit from Arc Guard System™ TVOC-2 flexibility with:

- DIN rail or wall-mounted possibilities
- HMI/COM Module can be mounted on the cabinet door and / or on the main unit for easy access
- All connections accessible from front
- Pre calibrated optical sensors.



Ordering details

Description	Type	Order code
Arc Monitor including one HMI and door mounting accessories	TVOC-2-240	1SFA664001R1001
	TVOC-2-48	1SFA664001R1002
including one COM Module and door mounting accessories	TVOC-2-240-C	1SFA664001R1003
	TVOC-2-48-C	1SFA664001R1004
Extension 10 optical inputs	TVOC-2-E1	1SFA664002R1001
	TVOC-2-E3	1SFA664002R3001
10 optical inputs for cable TVOC-2-DP60 only		
HMI (Human machine interface) additional	TVOC-2-H1	1SFA664002R1005
COM Module with communication interface (Modbus RTU) and door mounting accessories	TVOC-2-COM	1SFA664002R4001

Detectors, cable length	Type	Order code
1 m	TVOC-2-DP1	1SFA664003R1010
2 m	TVOC-2-DP2	1SFA664003R1020
4 m	TVOC-2-DP4	1SFA664003R1040
6 m	TVOC-2-DP6	1SFA664003R1060
8 m	TVOC-2-DP8	1SFA664003R1080
10 m	TVOC-2-DP10	1SFA664003R1100
15 m	TVOC-2-DP15	1SFA664003R1150
20 m	TVOC-2-DP20	1SFA664003R1200
25 m	TVOC-2-DP25	1SFA664003R1250
30 m	TVOC-2-DP30	1SFA664003R1300
60 m (1)	TVOC-2-DP60	1SFA664003R3600

1) Only to be used with TVOC-2-E3

Characteristics

Optical inputs and outputs

Optical detectors	10 inputs on Arc Monitor, 10 inputs on Extension unit X2 (optional), 10 inputs on Extension unit X3 (optional)
Current signal from CSU	2 inputs: X1.21, X1.22 (optical), 1 output: X1.23 (optical)
High-speed solid-state IGBT tripping contacts	3 N.O. contacts (K4, K5, K6)
Signal relay usage	2 C.O. gold-plated contacts (K2, K3)
Internal relay fault signal	1 C.O. gold-plated contact (K1)
Reaction time from light detection to trip	< 1 ms
COM module	Modbus RTU protocol
Supply voltage	TVOC-2-240: 100 ... 240 V AC, 50/60 Hz and 100 ... 250 V DC TVOC-2-48: 24 ... 48 V DC (possibility to connect two power supplies for redundancy (common minus))

For more information please contact:

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<http://new.abb.com/low-voltage/products/arc-guard>

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