

# Arc Guard System™ TVOC-2-48

ABB has released a new version of the TVOC-2. The 24-48V DC version of the well-established 110-240V AC/DC Arc Guard System™ that has been protecting people and electrical equipment from dangerous electrical arcs for over 35 years. TVOC-2-48 retains the ability to provide superior arc flash protection, detecting faults in low and medium voltage switchgear, but now with 24-48 V DC supply voltage. A Functional Safety SIL-2 classification makes the TVOC-2 Arc Guard System™ one of the most reliable arc mitigation products available on the market.



1SFC17002F0001

### Characteristics

- 10 inputs for optical detectors on Arc Monitor, optional each 10 inputs on Extension Units X2 and X3
- 2 optical inputs (X1.21, X1.22) for reading of current signal from CSU
- 1 optical output (X1.23) to forward the current signal to another Arc Monitor
- 3 n/o solid state type IGBT tripping contacts (K4, K5, K6)
- 2 c/o gold plated contacts (K2 K3) for signal relay usage
- 1 c/o gold-plated contact (K1): Internal relay fault relay
- Approximately 1 ms reaction time from light detection to trip
- Approvals / Standards / Marks

 SIL-2 / IEC 61508 / 

### The leading Arc Guard System™ TVOC-2

By installing the TVOC-2-48 Arc Monitor customers will receive several benefits taking arc mitigation to the next level. As a partner with over 35 years of experience in arc mitigation ABB offers reliability, flexibility and simplicity in only one device. The easy to install Arc Guard System™ provides pre-calibrated optical sensors and a HMI that can be mounted on panel doors as well as on the main unit. To facilitate the user experience the clear start-up menu provides maximum user friendliness. The mounting of TVOC-2 could be realized either on a DIN rail or a wall. The core system could be expanded with up to 30 optical sensors complementing the pre-calibrated optical sensors.

### Ordering data

Arc guard monitor

Supply voltage	Type	Order code
24/48 V DC	TVOC-2-48	1SFA664001R1002