

Short Circuit Isolators

W Series

WM100-2B Short Circuit Isolator

(technical data brief)



Features

- Detection of short circuit faults in the loop sections
- Minimization of disruptions caused by short circuits
- Short circuit LED indicator (yellow)
- Automatic loop section de-isolation upon short-circuit removal
- Loop powered
- Up to 32 devices may be installed between two isolators

The WM100-2B is a stand-alone dual-port short-circuit isolator (SCI) intended to protect the loop in case of a short circuit by disconnecting the loop section where the short circuit has occurred.

The WM100-2B short-circuit isolator is non-addressable, the control panel does not indicate its state but detects and displays the disappearance of devices in an isolated loop section.

Technical Data

Operating voltage $V_{min...V_{max}}$	15.... 28 V DC
Loop voltage (with protocol pulses)	≤ 38 V
Isolating voltage $V_{SC MAX}$	$\leq 14,5$ V
Reconnect voltage $V_{SO MIN}$	$\leq 10,5$ V
Max. continuous loop current I_{Cmax}	≤ 50 μ A
Max. continuous current with the switch closed I_{Smax}	$\leq 0,8$ A
Max. leakage current with the switch open (with LED) I_{Lmax}	≤ 30 mA
Max. short-circuit switching current I_{Smax}	$\leq 3,0$ A
Maximum series resistance - switch closed Z_{Cmax}	$\leq 0,13$ Ω
Deisolation impedance Z_{Sc}	500 ... 600 Ω
Dimensions (L x W x H), mm:	69,7 x 64,6 x 27,5
Weight	≤ 50 g
IP rating	IP30
Operating temperature	-10 $^{\circ}$ C to +65 $^{\circ}$ C
Humidity	0 - 95 % (non-condensing)
Average service life	10 years



Ista LLC,
18 Yuriia Matushchaka lane,
Kyiv, Ukraine

Tel.: +380 44 492 30 34,
+38 050 388 94 56
e-mail: info@ista.ua
<https://ista.ua/en>

