

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 $I_{C\ max}$	≤ 50 μ A
Max. continuous current with the switch closed $I_{S\ max}$	$\leq 0,8$ A
Max. leakage current with the switch open (with LED) $I_{L\ max}$	≤ 30 mA
Max. short-circuit switching current $I_{S\ max}$	$\leq 3,0$ A
Maximum series resistance - switch closed $Z_{C\ max}$	$\leq 0,13$ 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-Archive Ltd,
18 Radyshcheva lane,
Kyiv, Ukraine

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

