

WL Circuit Breaker

www.usa.siemens.com/WLBreaker

CubicleBUS modules

External CubicleBUS modules enable the WL Circuit Breaker a way to interface with external switchgear controls or building management systems. They can be used, for example, to activate analog displays or devices, transmit circuit breaker status and cause of trip, or read external device control signals. One module is suitable for zone-selective interlocking main and branch breakers.

Three different CubicleBUS modules can output data from the CubicleBUS system (two digital output modules and one analog output module). A digital input module can transmit data from the switchgear or system to a PROFIBUS/MODBUS master device like a power meters or logic controllers.

Digital Output Module with Rotary Switch – The digital output module can be used to output six events. These events can be warnings or trips and can be used for external annunciation or control. The load shedding and load restoring signals can enable a load to be switched ON or OFF automatically. Voltages of up to 250V AC/DC are possible. The relay contacts are isolated.

Relay Digital Output Module: Order part number **WLRLYCUB**



Digital input module

The digital input module enables up to six additional binary signals (24V DC) to be connected. Signals, such as breaker status, arc-flash current reduction, over-temperature conditions or control circuit status switchgear, can be transmitted directly to the power monitoring network.

A total of 6 inputs are available in the "BUS Input" Switch position. Six inputs are also available if the rotary switch is in the "Parameter Switch" position, although the first input causes the active parameter set to change. If the connected ETU does not have two parameter set capability (e.g. ETU745 or ETU748), this input can also be used without any restrictions.

Digital Input Module: Order part number **WLDGNCUB**



ZSI module

To use the ZSI function with the WL Circuit Breaker, the external CubicleBUS ZSI module must be implemented. The zone selective interlocking (ZSI) module provides the complete range of selectivity with the short delay time of $t_{ZSI} = 50$ ms, irrespective of the number of levels and the location of the short-circuit in a distribution system. Its benefits become even more apparent, the higher the number of levels in large systems and the longer the resulting delay times. By shortening the time, the ZSI module significantly reduces stress and damage in the event of a short-circuit in the switchgear.

Zone Selective Interlocking Module: Order part number **WLZSIMD**



Analog output module

The analog output module can be used to output the most important measured values sent via the CubicleBUS to analog indicators (e.g. analog meters) in the switchgear cubicle door. Each analog output module has four channels for this purpose. The signals are available at two physical interfaces: a 4 ... 20mA and a 0 ... 10V interface.

Analog output module: order part number **WLANLGCUB**



Pre-assembled CubicleBUS communication cables (RJ45-M connections)

1 meter length: order part number **WLCBUSCABLE1**

2 meter length: order part number **WLCBUSCABLE2**

4 meter length: order part number **WLCBUSCABLE4**

9 meter length: order part number **WLCBUSCABLE9**