

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ABB NWIO-01 64168533

Watchdog Digital I/O Module

INPUTS	OUTPUTS	WATCHDOG	LINK
2 digital inputs	2 relay outputs	1 s / 0.2 s	Optical Special I/O

ABB identifies NWIO-01 64168533 as a digital I/O board with watchdog functionality. The module provides two digital inputs and two relay outputs for supported Special I/O configurations, including the documented AC 80 and AC 800M/CI858 arrangements.

01

PRODUCT IDENTITY AND SPECIFICATIONS

ABB product ID / designation	64168533 / NWIO-01
Digital input channels	2
Digital input voltage	24 VDC or 115/230 VAC
Input hardware filter	1 ms or 8 ms, selectable
Input isolation	Individually isolated
Relay output channels	2
Relay switching capacity	8 A at 24 VDC resistive; 0.4 A at 120 VDC resistive; 2000 VA at 250 VAC
Maximum continuous relay current	2 A

Sources: ABB product catalog; DriveBus pp. 80-83; ACS 600 System Description p. 6-6.
Input-signal voltage must not be interpreted as module power-supply voltage.

02 TECHNICAL DATA

Watchdog time constant	1 s factory setting or 0.2 s, selected by jumper X1
DO2 operating modes	Normal software-controlled output or watchdog output; hardware switch and WD_SEL selection
Communication connection	DDCS optical Special I/O ring
AC 800M function blocks	NWIO1DI for inputs; NWIO1DO for outputs
Watchdog supervision	CI858 application, dual-port memory communication, operating system and optical I/O-ring communication

03 APPLICATION AND CONFIGURATION

- Paper production and metal rolling: documented host platforms support sectional drive control.
- Crane and positioning duties: verify the engineered ACS 600 / AC 80 configuration before selection.
- The unit provides I/O and software-watchdog support; it is not a standalone drive or safety controller.

04 OFFICIAL DOCUMENTATION

[ABB 64168533 product catalog - identity and package data](#)

[ABB AC 800M DriveBus - 2PAA113566-600, pp. 80-83](#)

[ABB ACS 600 System Description - 3AFY63700151R0325, p. 6-6](#)

Independent Amikon summary based on the cited ABB publications. Not a manufacturer-issued manual. Verify the installed hardware, software and current project instructions. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

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