

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB FPBA-01-M 3AXD5000012431

Product Reference

ABB FPBA-01-M PROFIBUS DP Adapter 20-Pack

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB FPBA-01-M 3AXD5000012431
Reference number	3AXD5000012431
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/fpba-01-m-3axd5000012431>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB FPBA-01-M, order code 3AXD5000012431, is the official 20-pack of PROFIBUS DP fieldbus adapters offered for ABB machinery-drive installations. Each adapter mounts in the drive option slot and connects an ABB ACS355 drive to a PROFIBUS master such as a PLC or DCS, allowing the automation controller to command and monitor the drive through the configured fieldbus interface instead of extensive hardwired control signals. System context: ABB FPBA-01-M PROFIBUS DP Adapter 20-Pack.

Published field	Manufacturer-published value or verified identity note
Manufacturer	ABB
Model	FPBA-01-M
ABB order code	3AXD5000012431
Sales-unit description	20-pack PROFIBUS DP for machinery drives
Verified exact host	ABB ACS355
Per-adapter protocol	PROFIBUS DP
Physical bus	Asynchronous half-duplex RS-485 over shielded twisted pair

System function and signal path

01	Master To Drive: Receives cyclic control words, speed or process references, and configured data words from the PROFIBUS master for the drive.
02	Drive To Master: Returns status words, actual values, and selected drive data to the master.
03	Parameter Access: Supports drive parameter access through the PROFIBUS DP mechanisms and the selected ABB Drives, PROFIdrive, or transparent communication profile as supported by the exact ACS355 configuration.
04	Physical Layer: Uses asynchronous half-duplex RS-485 over shielded twisted-pair PROFIBUS cable through a 9-pin D-SUB connector.

Applications, answers, and official sources

- 1 ACS355-to-PLC PROFIBUS control: Connects ACS355 machinery drives to a PROFIBUS DP master for cyclic start/stop, direction, reference, status, and actual-value exchange.
- 2 Multi-drive machine networks: The 20-pack supports projects deploying multiple individually addressed drive adapters on a correctly segmented and terminated PROFIBUS network.
- 3 Machine speed and process coordination: Carries controller reference and drive actual-value data for conveyors, packaging machinery, pumps, fans, mixers, and similar engineered ACS355 applications.
- 4 Drive diagnostics and parameter access: Provides the PROFIBUS path for supported parameter access and adapter/drive diagnostics during commissioning and operation.

Frequently asked questions

What is ABB FPBA-01-M?	ABB identifies FPBA-01-M as a 20-pack of PROFIBUS DP adapters for machinery drives.
What is the ABB order code for FPBA-01-M?	ABB's ACS355 catalog maps FPBA-01-M to 3AXD5000012431.
Is one FPBA-01-M sales unit one adapter?	No. The exact ABB catalog description is a 20-pack; verify package quantity and individual module labels.
Which drive is officially verified for FPBA-01-M?	ABB's official PROFIBUS page explicitly identifies FPBA-01-M as compatible with ACS355 drives.
Can FPBA-01-M be used with DCS580?	No. ABB's DCS580 firmware manual explicitly states that suffix-M fieldbus adapters such as FPBA-01-M are not supported.
What protocol does each adapter support?	Each adapter provides PROFIBUS DP communication over an RS-485 physical layer.

Official ABB sources

ABB machinery drives ACS355 catalog	https://library.e.abb.com/public/8d2b305844494ec4877f916eaf400260/ACS355_catalog_3AUA0000068569_EN_RevH.pdf
ABB ACS355 catalog with explicit FPBA-01-M order code	https://library.e.abb.com/public/f53799e2d42e40449d1877dc4593a366/ACS355_catalog_3AUA0000145028_RevH_RU.pdf
FPBA-01 PROFIBUS DP adapter module user's manual	https://library.e.abb.com/public/538b0f9011cb4fddb33fb79d838f5895/EN_FPBA01_UM_E_screenres.pdf
ABB PROFIBUS drive communication page	https://new.abb.com/drives/pl/komunikacja/magistrala-komunikacyjna/profibus
ABB ACS355 to ACS380 Transition Guide	https://library.e.abb.com/public/8ec67b0892d048fea53ceb5c5cf1b4c4/9AKK108470A2629_ACS355_ACS380_Transition_Guide_RevA.pdf
ABB DCS580 Firmware Manual	https://library.e.abb.com/public/91d3665648a3499aa0ed51f181285db0/3ADW000820R0201%20DCS580%20Firmware%20manual%20en%20b.pdf