

Profibus

Highway Termination Module

rotork®

IQ Pro and IQT Pro **Profibus Highway Termination Module**

Rotork's philosophy of continuous product innovation, based upon customer feedback combined with unrivalled experience of Profibus actuator supply, has led to the development of this new Profibus highway termination module for all IQ Pro range actuators.

The design criteria of facilitating simple highway connection, providing quick and easy bus termination, maintaining a zero stub length and having "bumpless" actuator isolation have all been encapsulated within Rotork's latest addition to its Profibus product range. The module itself resides within the terminal cover and, when fitted, forms an integral part of the actuator assembly.

Key Benefits:

- Highway isolation
- Bumpless connect / disconnect
- Simple highway connection
- Stranded / solid core cable connectivity
- Zero internal stub length
- Switchable line termination
- IP68 Integrity
- Single / Dual channel option



Profibus Bumpless Highway Termination

Profibus Highway Termination Module

Simple Highway Connection

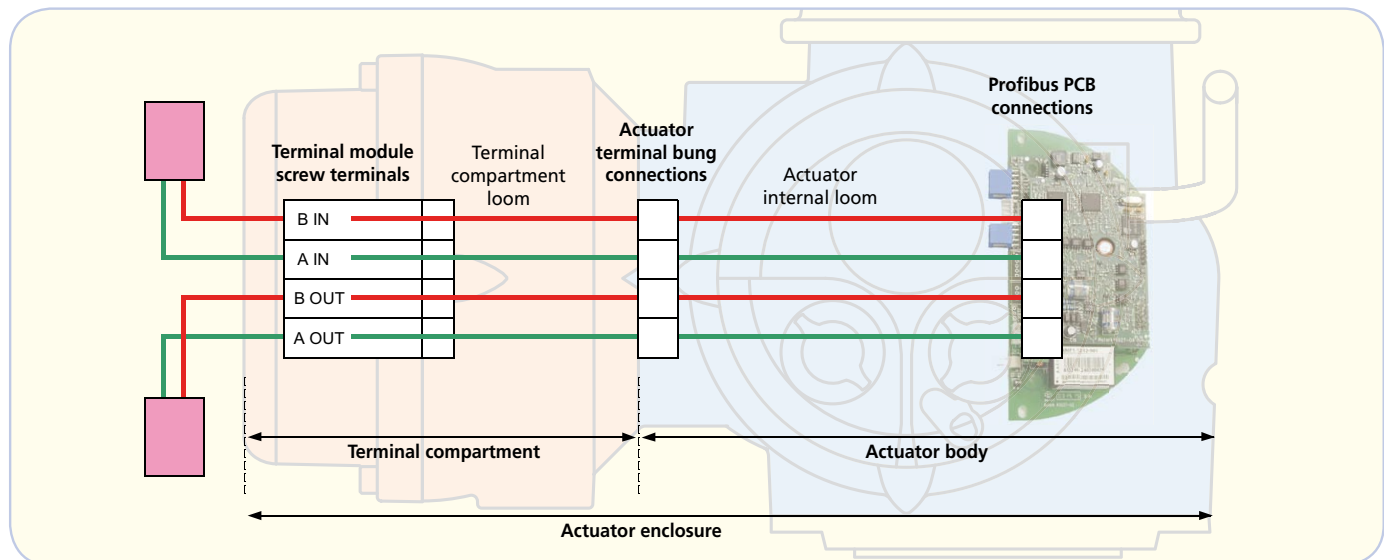
The PCB has been specifically designed to accommodate both solid and stranded core cables and helps to reduce the occurrence of field wiring faults. The careful positioning of the screw terminals guarantees correct bend radii of the incoming and out going cables, removing the potential of a broken core on solid core cables. The use of screw terminals removes the need for crimps, eliminating another potential error source. The clear and concise PCB labelling ensures simple, error free connection of the Profibus highway to the module.



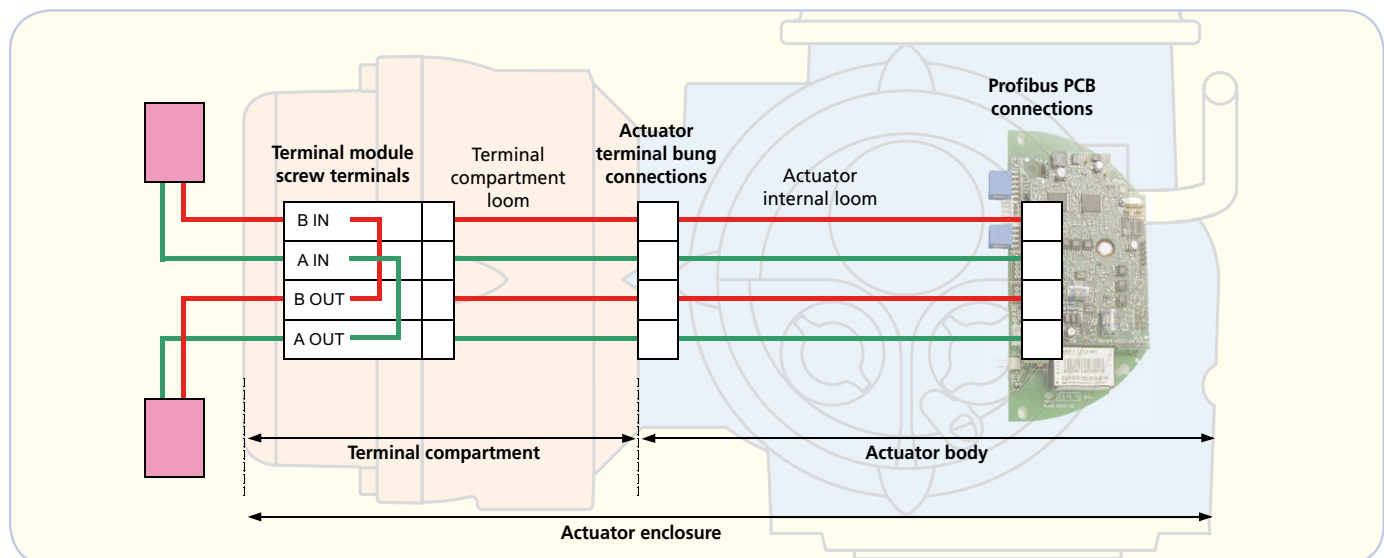
“Bumpless” Actuator Isolation

Removal of the mains power to the actuator will cause the highway connection to the Profibus PCB to become isolated whilst maintaining the overall Profibus highway continuity. This “bumpless” isolation mechanism allows the actuator to be physically connected and disconnected from the bus without the risk of highway disruption to the remaining Profibus devices.

Actuator mains power applied:



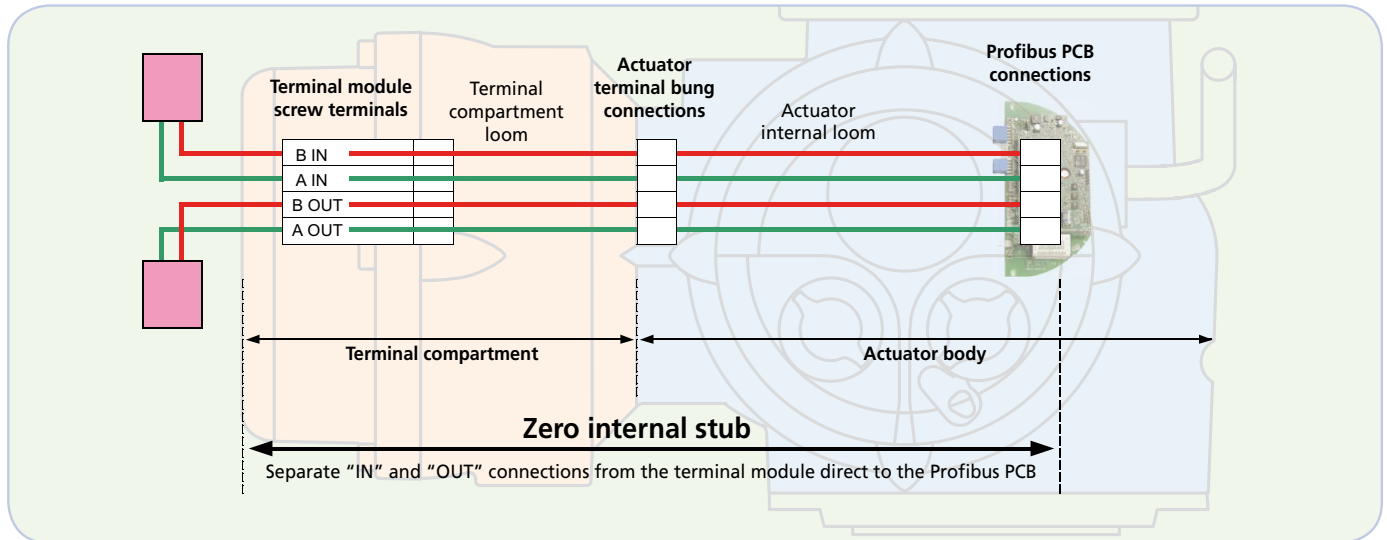
Actuator mains power removed:



Established Leaders in Actuation Technology

Zero Internal Stub

The termination module continues Rotork's philosophy of zero internal stubs, essential for high baud rate Profibus highways, by having separate "IN" and "OUT" cabling from the field, via the module, all the way to the Profibus card within the actuator.



In-built Profibus Highway Termination

To ensure correct Profibus highway termination, a highway termination resistor can be incorporated by a simple switch selection. This termination resistor also isolates any devices on the "OUT" side (downstream of the device) and consequently can be a useful aid during highway commissioning.

IP68 Rated

The new terminal cover does not compromise the superior IP68 rating that makes Rotork the 'fit and forget' choice for all actuator applications.

Four Conduit Entries

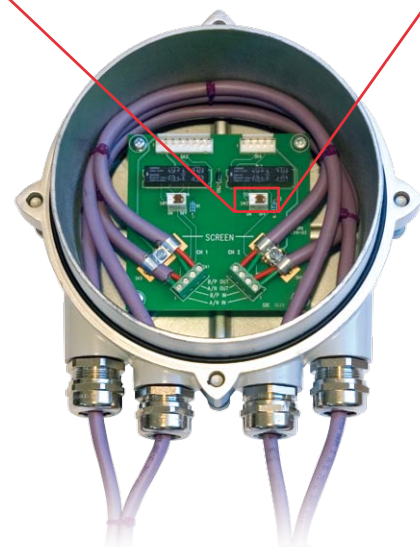
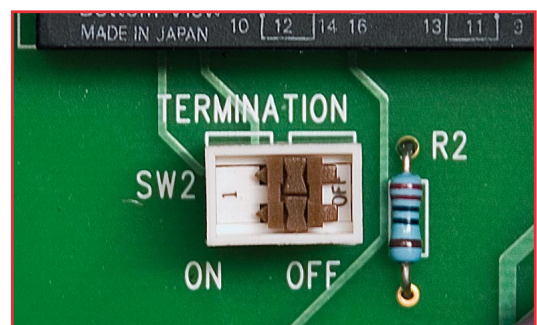
The new terminal cover also includes four additional M25 conduit entries to accommodate separate "IN" and "OUT" cabling for both single and dual channel installations.

Cost Effective

Incorporating the Profibus Highway Termination Module removes the need for costly additional equipment such as highway isolators or junction boxes. It also reduces the quantity of cable terminations ensuring a more cost effective solution for site installation.

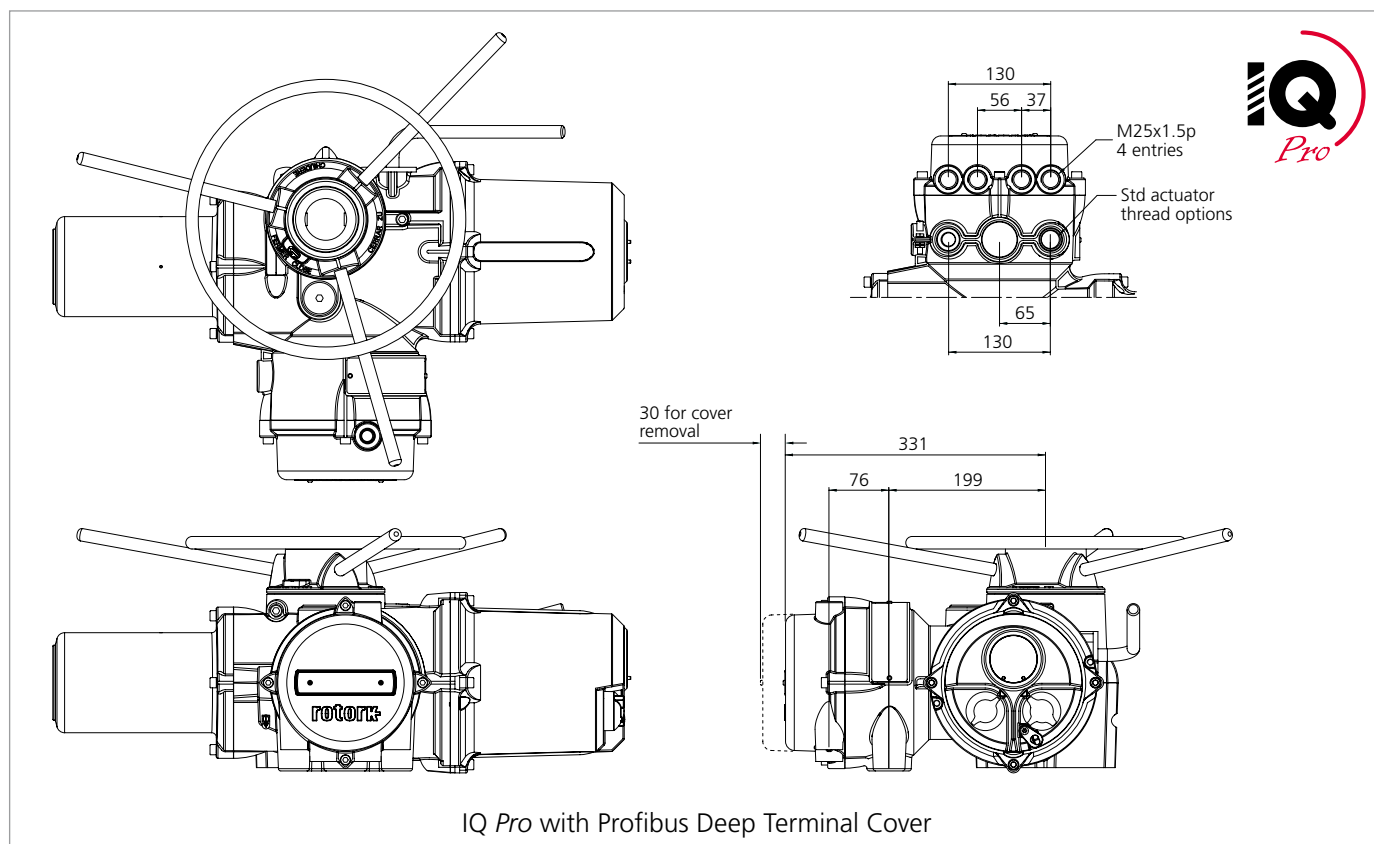
Termination Module Cover

In very rare cases where the IQ needs to be removed from the field, a separate module cover can be used to provide environmental protection for the PCB and its associated highway connections.



Highway Termination Module

Dimensional Data



Rotork Profibus supporting documentation and software are available for download at www.rotork.com

S113E	Profibus Rotork Actuator Control Catalogue
S420E	Profibus DP Module Mk2 Technical Manual
E110E	IQ & IQT Catalogue
E120E	IQ & IQT Control and Monitoring
Dimensions	Available in PDF and DXF format in IQ/IQT range - Specifications

A full listing of our worldwide sales and service network is available on our website at www.rotork.com

As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice.

Published data may be subject to change.

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