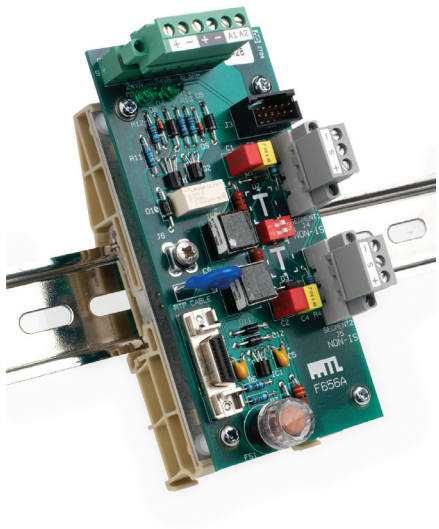
technical datasheet

F656A

remote termination panel for use with Honeywell Experion PKS FIM

- Unpowered, non-redundant
- format
- Compact, DIN-rail mountable
- Integrated connection to a single Honeywell Experion PKS Fieldbus Interface Module
- Redundant 24V dc power connections
- Alarm contact on 24V dc power failure
- Switchable terminators
- Supports two fieldbus segments
- Built-in cable connection to NET9000 FISCO/FNICO power supplies



The F656A Remote Termination Panel provides a compact, low-cost interface between Honeywell's Experion PKS Fieldbus Interface Module (FIM) and external fieldbus power supplies. It provides a single FIM connection using a standard Honeywell RTP cable. The unit accommodates the fieldbus conditioning components required to support two FOUNDATION™ Fieldbus H1 segments.

The RTP does not power the fieldbus segments, but is intended to be used with external fieldbus supplies such as the MTL5995 or MTL-Relcom FPS Series. For non-redundant power, select the FPS-D/-DT dual power supply.

Applications requiring redundant power may be satisfied using the F656A with two FPS-I supplies, but the F650A redundant power system is recommended where redundancy of power and host communications are required.

To minimise wiring effort in FISCO and FNICO applications, a cable assembly is available for easy connection to MTL's NET9000 power supplies. The cable eliminates the need for additional wiring between the termination panel and the host side of the NET9000 supplies. When used with other external fieldbus conditioners, such as the MTL-Relcom FPS Series, the field wiring to each segment is connected by means of a two-part pluggable connector.

Optionally redundant 24V dc connections provide power to the termination panel and, where appropriate, to the FISCO/FNICO power supplies. Failure of either 24V dc supply is signalled by means of a volt-free relay contact. An LED indicator is provided on each 24V dc input. Easy DIN-rail mounting is achieved by means of built-in mounting clips. Each segment has a switchable fieldbus terminator.

SPECIFICATION

Location of equipment
Safe area

OUTPUT

Number of channels
Two

DC INPUT

Input voltage
19.2 - 30V DC

Current consumption
(stand-alone, without NET9000 power supplies)
1mA (typical) at 18V
10mA (typical) at 19V
10mA (typical) at 19.2V
20mA (typical) at 24V
25mA (typical) at 25V

Isolation
Fieldbus to power supply: 250V AC rms withstand

ALARMS

Alarm contact rating
1A max @ 30V DC max

Alarm contact status
Normally closed; open on alarm

Alarm threshold
Input <18V DC; no overvoltage protection

MECHANICAL

Mounting method
DIN-rail mounting kit

DIN-rail types
'Top hat', 35mm x 7.5mm or 35mm x 15mm to EN 50022

24V DC Input and Alarm Contact Terminals
Two part pluggable connector with fixed rising cage clamp screw terminals
Conductor size: 0.14 to 2.5mm^2

Fieldbus Terminals
Two-part pluggable connector with fixed rising cage clamp screw terminals
Conductor size: 0.14 to 2.5mm^2

System Connections

System Connections:	standard RTP cables to Experion - PKS Fieldbus Interface Module.
Screen Ground:	to connect all fieldbus cable screens to a common point (cabinet earth).

ENVIRONMENTAL

Ambient temp
–40°C to +65°C

Storage
–40°C to +85°C

Ingress Protection
IP20 to BS EN 60529 (Additional protection by means of enclosure)

PHYSICAL NETWORKS

IEC 61158-2
Foundation Fieldbus H1

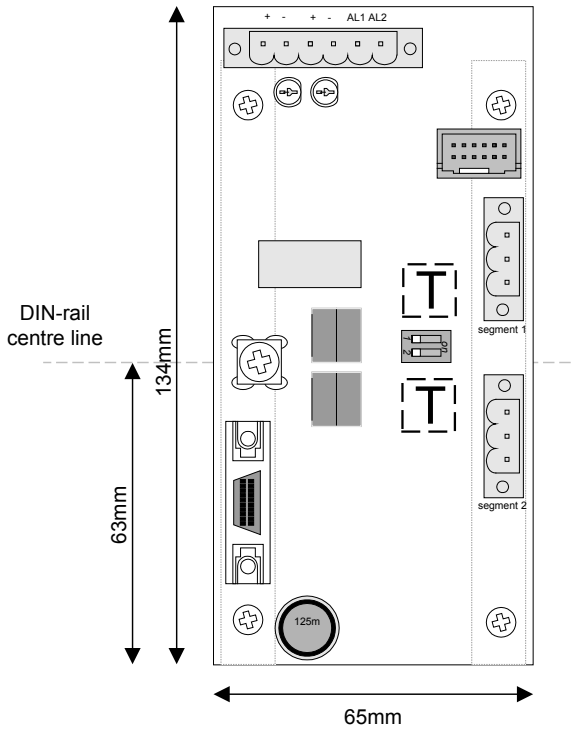
ORDERING INFORMATION

The cable assembly FCAB–01 should be ordered separately if the F656A is to be used with NET9000 FISCO or FNICO power supplies.

PART No	DESCRIPTION
F656A	Fieldbus Remote Termination Panel
FCAB–01	Cable Assembly, NET9000

F656A
FIELDBUS REMOTE TERMINATION PANEL

F656A DIMENSIONS



F656A used with NET9000 FISCO power supplies and FCAB-01 cable assembly

Cable assembly type FCAB-01

EUROPE (EMEA): +44 (0)1582 723633
enquiry@mtl-inst.com

THE AMERICAS: +1 800 835 7075
csinfo@mtl-inst.com

ASIA-PACIFIC: +65 6 487 7887
sales@mtlsing.com.sg