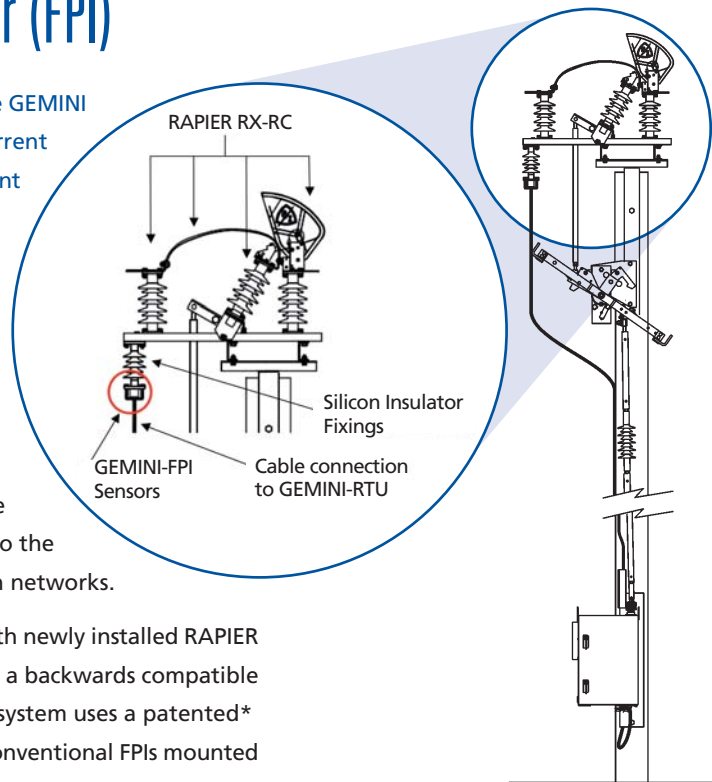


GEMINI Fault Passage Indicator (FPI)

When used in conjunction with the RAPIER RX-RC, the GEMINI Fault Passage Indicator (FPI) is able to detect fault current (both overcurrent and earth fault) and with a line current resolution of less than 1 ampere, it also provides accurate current monitoring functionality.

The GEMINI-FPI is designed to fit to the outer channels of the Rapier RX switch using 'T' clamps and standard silicon insulators. To communicate with a SCADA or DMS system, the derived signals from the sensor bar are fed into an analogue processing module located inside the Gemini-RTU control cabinet. From here the information is fed via the communications protocol to the main SCADA system via radio or GSM communication networks.

The GEMINI-FPI has been designed to complement both newly installed RAPIER RX-RCs, in addition to addressing the need to provide a backwards compatible solution for existing RAPIER RX-RC installations. The system uses a patented* technique, which is more accurate and reliable than conventional FPIs mounted further away from the MV overhead conductors.



LUCY SWITCHGEAR DATA SHEET

* Exclusive patent to Lucy Switchgear

Specification

Earth fault duration time before alarm
programmable, typically 10 seconds

FPI reset time
programmable via GEMINI-RTU control software, minimum 1 minute. FPI can be reset remotely from a SCADA system or on supply restoration

Transient filters
programmable via GEMINI-RTU control software

Readings frozen on power interruption

Time stamping is generated by GEMINI-RTU events

Alarms
single, dual or deadband with moveable setpoint

Product Specification	GEMINI Fault Passage Indicator (FPI)
Line current reading	0 - 1000A
Line current resolution	<1A
Line current accuracy	<5%
Fault currents	up to 25kA
Overcurrent fault detection time	<50ms
Earth faults	5A min

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