PHASE PRESENCE INDICATION

LLi

LIVE LINE INDICATOR

HIGH-VISIBILITY LIVE-LINE INDICATION FOR SAFE SWITCHING AND ISOLATION

The LLi Live Line Indicator provides high-visibility monitoring of 3-phase AC load circuits, giving operators immediate confirmation of live or isolated status.

Compact, robust and designed for mining environments, the LLi supports safe switching and isolation procedures and reduces the risk of accidental contact with energised equipment.

With the matching LLD remote display, the operator sees extra-low-voltage indication at the front panel, eliminating hazardous voltage exposure. The LLi is compliant with AS 2081:2011.

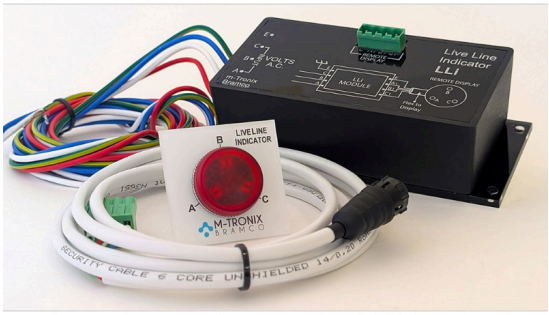

FIG. 1 — LLI MODULE AND LLD REMOTE DISPLAY, FRONT VIEW

SUPPLY OPTIONS **380 – 1100 V AC**	POWER **< 2 VA typical**
INDICATION **3 phases + ELV display**	CONNECTIONS **A, B, C + Earth**

AS 2081:2011 COMPLIANT | ISO 9001 MANUFACTURED | AUSTRALIAN DESIGNED & SUPPORTED

KEY FEATURES

01 Compact, panel-mounted, low-power 3-phase indicator

02 High-brightness LED indication for each phase

03 Matching LLD remote display, powered from an extra-low-voltage supply

04 No AC present — all indicators off; AC present — indicator on for each energised phase

05 Any indicator on means the circuit is live

06 Indicators on when the circuit should be isolated reveal a welded contactor, leakage or isolation failure

07 Plug-in connector to the remote display for fast installation

08 Designed for mining-grade reliability in switchgear and fixed plant

KEY BENEFITS

IMMEDIATE CLARITY

Operators see live or isolated status before switching or accessing equipment.

OPERATOR SAFETY

The remote display carries extra-low voltage only — no hazardous voltage at the panel face.

FAULT REVEALING

Indication during an intended isolation exposes welded contactors and isolation failures.

SIMPLE TO FIT

Four connections, panel or DIN mounting and a plug-in display lead.

APPLICATIONS

SWG	LW	MCC	OEM	DB	ISO
Surface & underground switchgear	Longwall & conveyor starters	MCCs & fixed plant	OEM enclosures	Distribution panels	Isolation points

TERMINAL LAYOUT & FRONT PANEL

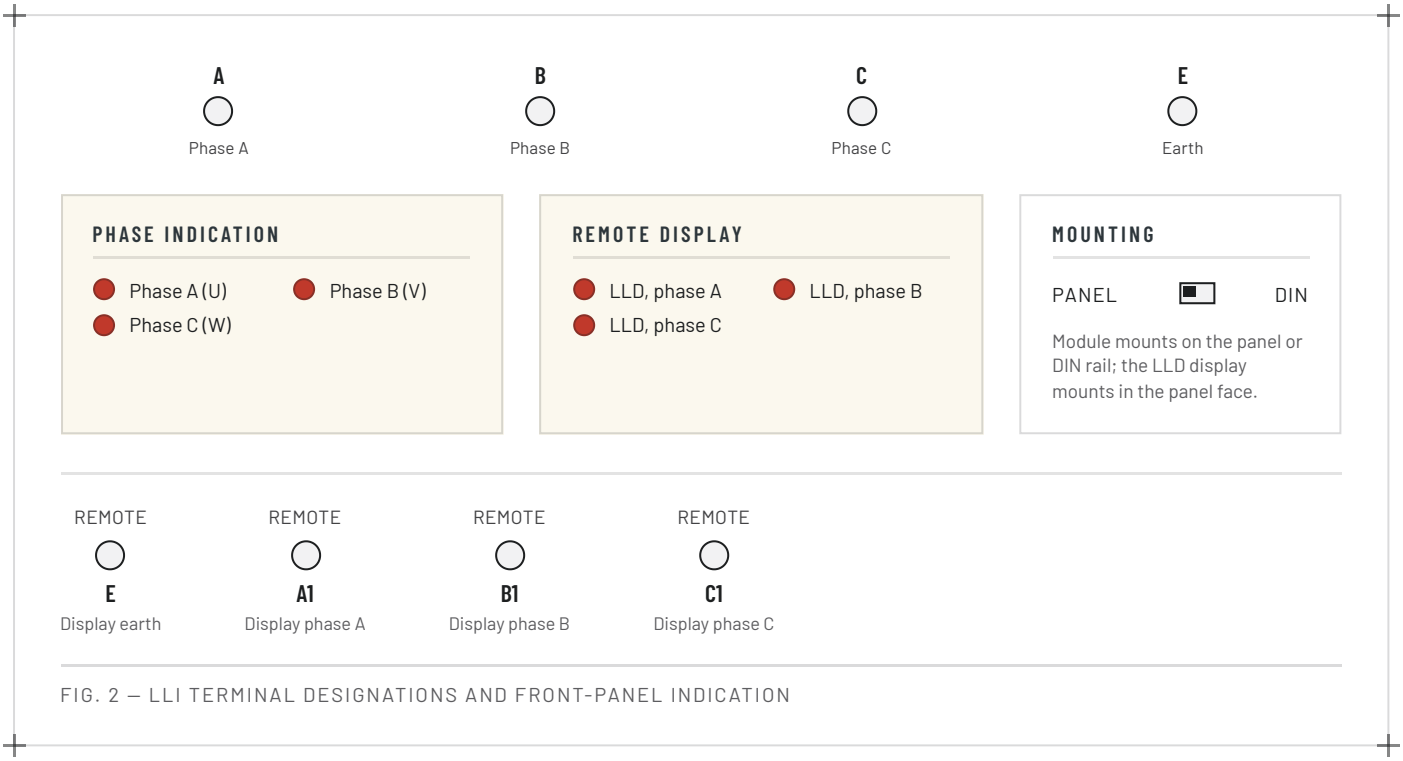

FIG. 2 — LLI TERMINAL DESIGNATIONS AND FRONT-PANEL INDICATION

INDICATION

Phase A (U)	Phase A energised
Phase B (V)	Phase B energised
Phase C (W)	Phase C energised
All off	No AC present — circuit isolated
Any on	Circuit is live — do not access
On when isolated	Welded contactor, leakage or isolation failure

CONTROL SETTINGS

Normal operation	Indicators follow phase presence; all off confirms no AC present
Fault detection	Indication during an intended isolation signals a switchgear fault
Remote display	LLD connected by plug-in flex; extra-low voltage at the panel face
Environment	Operating 0 – 60 °C, humidity 0 – 95% non-condensing

INSTALLATION NOTES

01 Phase and earth connections are made directly to the monitored circuit — isolate before wiring.

02 The LLD remote display must be connected using the supplied plug-in flex.

03 Indication is a safety aid and does not replace approved isolation and testing procedures.

04 All connections must comply with the requirements of AS 2081.

05 Order the LLi to match the system voltage — 380 – 480 V AC or 660 – 1100 V AC.

TERMINAL FUNCTIONS

NO.	TERMINAL	FUNCTION
A	**Phase A**	Monitored phase A input
B	**Phase B**	Monitored phase B input
C	**Phase C**	Monitored phase C input
E	**Earth**	Earth connection
E	**Remote E**	LLD display, earth
A1	**Remote A1**	LLD display, phase A
B1	**Remote B1**	LLD display, phase B
C1	**Remote C1**	LLD display, phase C

DIMENSIONS & ENCLOSURE

Material	High-impact polycarbonate
Mounting	Panel or DIN rail
Terminals	Cage screw terminals
Display	LLD panel-mount remote display, plug-in flex
Dimensions	Module and display dimensions to be confirmed

SPECIFICATIONS

SUPPLY

MODEL	MIN	TYP	MAX	UNIT
A01361	380	415	480	V AC
A00726	660	1000	1100	V AC

Power consumption	Less than 2 VA (typical)
Operating temperature	0 – 60 °C
Humidity	0 – 95%, non-condensing
Indication	High-brightness LED indicators, one per phase
Remote display	LLD extra-low-voltage display, plug-in connector
Connections	Phases A, B, C and earth; LLD plug-in connector
Mounting	Panel or DIN rail options

ORDERING INFORMATION

PART NO.	DESCRIPTION
A01361	LLi 380 – 480 V AC with LLD remote display
A00726	LLi 660 – 1100 V AC with LLD remote display
A00739	LLD remote display — spare / replacement

Supplied with: LLi module, LLD remote display and plug-in display flex.

STANDARDS & COMPLIANCE

AS 2081:2011 — Relevant live-line indication requirements for mining installations

AS/NZS & IEC — Manufactured to the applicable standards

ISO 9001 — Designed and manufactured under a certified quality system

RCM E200379

FLYSHTEC

ENGINEERING A SAFER TOMORROW · AUSTRALIAN DESIGNED FOR MINING AND INDUSTRY

+61 435 939 513
info@flyshtec.com.au
www.flyshtec.com.au

PROUDLY DISTRIBUTED BY

DEJONG INDUSTRIAL SYSTEMS
INNOVATION · ENGINEERING · SOLUTIONS

0468 344 220
richard@dejongindustrialsystems.com.au
www.dejongindustrialsystems.com.au