Datasheet

pempek
made for mining

L0U10401 Joystick 3 Button, 2 Trigger,1 Rocker,2 Axis 500kBps Intrinsically Safe

The Type L0U1 IEC Ex ib Intrinsically Safe Joystick is an industrialised operator interface for the rigors of underground mobile mining machinery.

Designed to exacting IEC 60079 .0 and IEC 60079.11, this joystick is designed for worldwide explosive atmosphere regulatory approval allowing it to be installed into any underground environment after certification assessment.

Driven by a low-power dsPIC, the Type L0U1 Joystick is an extremely flexible product that can be used to suit any remote navigation.

Fundamental to its design are customisable operation buttons that allow any navigation possible.

An optional DMH sensor makes operation safer by sensing hand presence on the joystick handle.

- Joystick requires IS 12VDC supply
- CAN communication speed is 500kBps
- CAN frames are in standard format (11bits)

Joystick Buttons and Function Information.

Drawing Reference	Button Name	Operation	Function Description
1	A	Proportional	Y Axis
	B	Proportional	Y Axis
2	A	Proportional	X Axis
	B	Proportional	X Axis
PB1	Push Button	On/Off	B8
Rocker	Rocker Up	Proportional	Y Axis
	Rocker Down	Proportional	Y Axis
PB3	Push Button	On/Off	B12
PB2	Push Button	On/Off	B10
PB4	Push Button	On/Off	B4
PB5	Push Button	On/Off	B6
DMH	Internal Sensor	On/Off	B18

Typical Application

- Continuous Bolter/Miners
- Continuous Haulage
- Mobile Bolters
- Mobile Roof Supports
- Remote Control Scoops
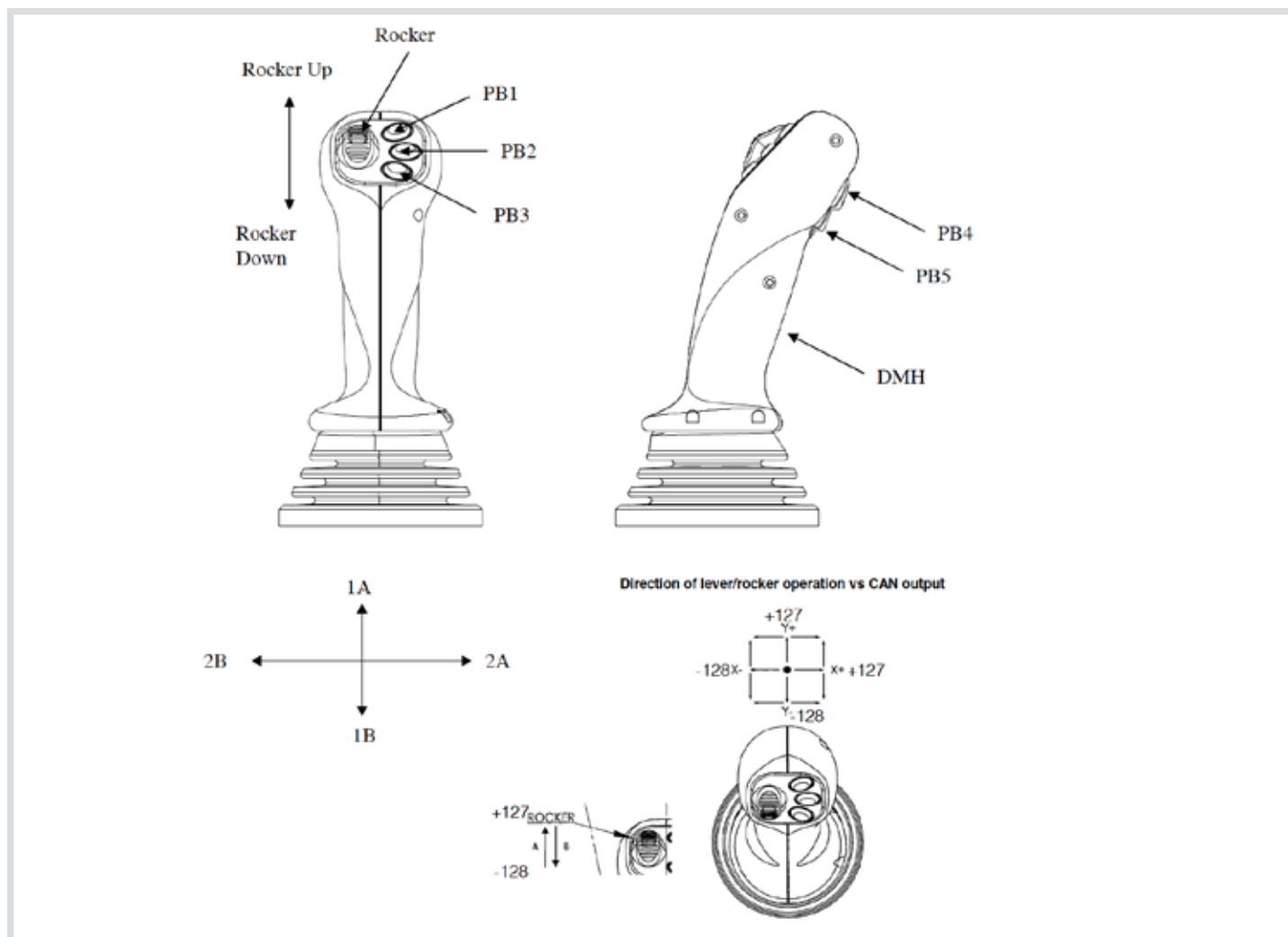- Remote Control Loaders

Standards Compliance

- AS/IEC 60079.0
- AS/IEC 60079.11
- AS/IEC 61508
- AS/IEC 62061
- AS 4240 MSHA
- CFR 30 Part 18

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Electrical Characteristics

Power	
Voltage	12VIS
Voltage and input signals	IP67 certified connector
Supply	100mA @ 12VIS

Environmental	
Operating ambient temperature	-20 ^{o}C to 60 ^{o}C
Operating relative humidity	10-90% non condensing