LPS012/LPS013

The Langham Controls' LPS012 pulse splitter is designed to split the pulse signal from a water utility meter to two data loggers. The device is passive, has no moving parts or batteries, and can be used with any meter with a pulse output (volt-free contact, reed switch or open collector).

Installation procedure – pulse splitter

- Step 1: wire the pulse output from the meter to the cable marked INPUT. Please observe polarity.
- Step 2: wire the first data logger to any cable marked OUTPUT. Please observe polarity.
- Step 3: wire the second data logger to any cable marked OUTPUT. Please observe polarity.
- Step 4 (*LPS13 only*): wire the third data logger to the remaining cable marked OUTPUT. Please observe polarity.

Safety warnings

- No user serviceable parts.
- Observe the instructions and all warnings on the device and within these instructions.
- The installer/end-user is fully responsible for the unit's safe installation.
- Local working practices should be adhered to for installation.

Electrical specification

Please see page 2.

Disposal

The device must be disposed of as unsorted waste and must be collected separately to ensure correct environmentally sound disposal. Where possible the device should be returned to the manufacturer (or their authorised agent) for correct disposal. If this is not possible your local waste disposal authority should be consulted to ensure disposal in compliance with waste electrical and electronic equipment (WEEE) regulations that may be in force at the time.

Support

Please contact us if you need support.



3 way Pulse Splitter – LPS013

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SWITCHING DIODE

Maximum Ratings and Electrical Characteristics

Rating at 25°c ambient temperature unless otherwise specified.

Electrical characteristics

The Input, (red or brown) wire is connected to the CATHODES of both diodes. The (black or white) wires are common and connected together internally.

Each output, (red or brown) wire is connected to the ANODE of each of the diodes. Incorrect polarity can affect the working of the either or both of the outputs.

Maximum ratings

Type Number	Symbol		Units	
Repetitive peak reverse voltage	VRRM	100	V	
Reverse voltage	VR	75	V	
Peak forward surge current tp=1us	IFSM	2	А	
Repetitive peak forward current	IFRM	500	mA	
Forward current	IF	300	mA	
Average forward current VR=0	IFAV	150	mA	
Power dissipation I=4mm TL=45°c	PV	440	m₩	
l=4mm TL≤25°c	PV	500	m₩	
Junction ambient I=4mm, TL=constant	ReJA	300	K/W	
Operating and storage temperature range	TJ, TSTG	–65 to + 200	°C	

Type Number		Symbol	Min	Max	Units
Forward voltage	@IF=10mA	VF	_	1.0	V
Peak reverse current	VR=75V			5	uA
	VR=20V, TJ=150°c	IR	-	50	uA
	VR=20V			25	uA
Breakdown voltage	IR=100uA, tp/T=0.01, tp=0.3ms	V(BR)	100	-	V
Capacitance	VR=0, f=1.0MHz, VHF=50mV	Cj	_	4.0	рF
Rectification efficiency	VHF=2V, f=100MHz	Tlr	45	-	%
Reverse recovery time	IF=IR=10mA, IR=1mA	trr	_	8.0	nS
	IF=10mA, VR=6V, IR=0.1xIR, RL=100 Ω	trr	_	4.0	nS

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