

TECHNICAL DATA

# PLS 6R, 6G Line and Point Laser Levels

## PLS 180R, 180G Line Laser Levels



### Accuracy

PLS 180R, 180G, PLS 6R, 6G is accurate to  $\leq 1/8$  in at 30 ft. ( $\leq 3$  mm @ 10 m)



**Horizontal fan angle:** 180 °



**Vertical fan angle:** 130°



### Pendulum lock

The PLS 6 and PLS 180 are equipped with a pendulum lock, ensuring safe transport and the ability to lock the laser level in tilt mode.



### IP54

IP 54 rating to limit dust and water entry for years of operation on the job site.



**Best-in-Class  
WARRANTY**

YEAR

PLS laser levels are backed by a three-year best-in-class warranty, ensuring you don't lose any time on the job. If you experience issues with your PLS tools during the warranty period, except for obvious misuse or damage, your local dealer can provide you a same day replacement tool.

### Level. Layout. Build.<sup>™</sup>

The new PLS 6 and PLS 180 red and green laser levels offer the durability and precision you expect from PLS, a Fluke Company. We've replaced the PLS 4 red with the PLS 6 and created both a red and green version. The fast settling, self-leveling pendulum gives you accurate point and reference lines almost instantly. Additionally, these products feature a pendulum lock to secure the laser during transport or if dropped.

## PRODUCT OVERVIEW

### All laser level models

- Accuracy:  $\leq 1/8$  in at 30 ft. ( $\leq 3$  mm @ 10 m)
- Durable pendulum lock

### PLS 6R, PLS 6G

- Plumb, level, and square with one tool. This professional self-leveling combination point and cross line laser level in red and green includes vertical and horizontal modes with lines and points combined. Great for metal or wood stud installation, general layout, square alignment, or finish carpentry.
- Kit includes floor stand, magnetic L-bracket, and UB9 wall and ceiling bracket for fast, easy overhang and centerline measurements.
- System includes the SLD laser line detector for use in bright lighting, long distances, or outdoors.

### PLS 180R, PLS 180G

- This professional self-leveling cross line laser level in both red and green is equipped for multiple applications including wall construction, acoustic ceiling installation, tile installation, residential and commercial construction.
- Kit includes magnetic L-bracket for fast, easy overhang and centerline measurements and the UB9 Universal Wall/Ceiling Bracket for fine vertical adjustment and ceiling installation.
- System includes the SLD laser line detector for use in bright lighting, long distances, or outdoors.

### PLS, The Professional Standard— Built by contractors for contractors

PLS lasers provide bright, crisp reference points and lines for quick and accurate layout. As the Professional Standard of laser levels, PLS tools were developed out of necessity by professional contractors with over 50 years of experience in commercial and residential interior and exterior layout. Now, as a Fluke Company, PLS incorporated Fluke's high standards for accuracy, ruggedness, and dependability.



## Specifications

	PLS 6R, 6G	PLS 180R, 180G
<b>Battery</b>	3 x AA Alkaline IEC LR6	
<b>Battery Life, Continuous Use</b>		
Red	≥ 8 hours (both lasers)	
Green	≥ 3 hours (both lasers)	
<b>Point Laser Direction (6 only)</b>	90° up, down, left, right	
<b>Line Fan Angle</b>		
Horizontal	≥ 180°	
Vertical	≥ 130°	
<b>Working Range</b>		
Point Laser (6 only)	≤30 m (100 ft.)	
Line Laser		
Without SLD	≤15 m (50 ft.)	
With SLD	6 m to 60 m (20 ft. to 200 ft.)	
<b>Accuracy</b>	≤3 mm @ 10 m (≤1/8 in at 30 ft.)	
<b>Laser Leveling</b>		
System	Automatic, Pendulum	
Range	4°	
<b>Line Laser Width</b>	≤2 mm at 5 m	
<b>Temperature</b>		
Operating	-10 °C to 50 °C (14 °F to 122 °F)	
Storage		
With Batteries	-18 °C to 50 °C (-0.4 °F to 122 °F)	
Without Batteries	-20 °C to 70 °C (-13 °F to 158 °F)	
<b>Relative Humidity</b>	0 % to 90 % (0 °C to 35 °C) 0 % to 75 % (35 °C to 40 °C) 0 % to 45 % (40 °C to 50 °C)	
<b>Size (H x W x L)</b>	116 mm x 64 mm x 104 mm (4.6 in x 2.5 in x 4.1 in)	
<b>Weight</b>	~ 0.6 kg (1.3 lb.)	
<b>Safety</b>	IEC 61010-1: Pollution Degree 2	
<b>Laser</b>	IEC 60825-1:2014 Class 2	
Light Source	Semiconductor laser diode	
Max Output Power	< 1 mW	
Wavelength		
Red	635 nm ± 5 nm	
Green	525 nm ± 5 nm	
<b>Electromagnetic Compatibility (EMC)</b>		
<b>International</b>	IEC 61326-1: Basic Electromagnetic Environment CISPR 11: Group 1, Class B Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself. Class B: Equipment is suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object	
<b>Korea (KCC)</b>	Class B Equipment (Broadcast communications equipment for home)	
<b>USA (FCC)</b>	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.	



## Ordering information

Laser levels			
Part number	SKU	Item description	What's in the box
5009423	PLS 6R Z	Cross Line and Point Red Laser Bare Tool	PLS 6R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, Safety Sheet and Quick Reference Guide
5009438	PLS 6R KIT	Cross Line and Point Red Laser Kit	PLS 6R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS RRT4 Red Reflective Target, Safety Sheet and Quick Reference Guide
5009445	PLS 6R SYS	Cross Line and Point Red Laser System	PLS 6R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS SLD-RED Red Laser Line Detector, PLS 60520 SLD Clamp, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS RRT4 Red Reflective Target, Safety Sheet and Quick Reference Guide
5009461	PLS 6G Z	Cross Line and Point Green Laser Bare Tool	PLS 6G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, Safety Sheet and Quick Reference Guide
5009489	PLS 6G KIT	Cross Line and Point Green Laser Kit	PLS 6G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS GRT4 Green Reflective Target, Safety Sheet and Quick Reference Guide
5009492	PLS 6G SYS	Cross Line and Point Green Laser System	PLS 6G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS SLD-GREEN Green Laser Line Detector, PLS 60520 SLD Clamp, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS GRT4 Green Reflective Target, Safety Sheet and Quick Reference Guide
5017279	PLS 180R Z	Cross Line Red Laser Bare Tool	PLS 180R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, Safety Sheet and Quick Reference Guide
5009450	PLS 180R KIT	Cross Line Red Laser Kit	PLS 180R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS RRT4 Red Reflective Target, Safety Sheet and Quick Reference Guide
5019428	PLS 180R SYS	Cross Line Red Laser System	PLS 180R laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS SLD-RED Red Laser Line Detector, PLS 60520 SLD Clamp, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS RRT4 Red Reflective Target, Safety Sheet and Quick Reference Guide
5017287	PLS 180G Z	Cross Line Green Laser Bare Tool	PLS 180G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, Safety Sheet and Quick Reference Guide
5009509	PLS 180G KIT	Cross Line Green Laser Kit	PLS 180G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS GRT4 Green Reflective Target, Safety Sheet and Quick Reference Guide
5019437	PLS 180G SYS	Cross Line Green Laser System	PLS 180G laser level, PLS canvas pouch, PLS BP5 alkaline battery pack, PLS SLD-GREEN Green Laser Line Detector, PLS 60520 SLD Clamp, PLS UB9 Universal Ceiling and Wall Bracket, PLS FS Floor Stand, PLS MLB Magnetic L-Bracket, PLS GRT4 Green Reflective Target, Safety Sheet and Quick Reference Guide



## Ordering information

Accessories			
Part number	SKU	Item description	What's in the box
4792193	PLS-60573	PLS Pouch, Canvas	PLS Pouch, Canvas
5031929	PLS FS	Floor Stand for PLS 3, 5, 6	PLS FS Floor Stand
5031934	PLS MLB	Magnetic L-Bracket, PLS 3, 5, 6, 180	PLS MLB Magnetic L-Bracket
5031952	PLS BP5	BP5 Alkaline Battery Pack	PLS BP5 Alkaline Battery Pack
4966636	PLS UB9	UB9 Universal Ceiling/Wall Bracket	PLS UB9, Quick Reference Guide
4978515	PLS SLD RED	SLD Red Detector W/ Bracket	PLSPLS 60520 SLD clamp, Battery, Quick Reference Guide
4978526	PLS SLD GREEN	SLD Green Detector W/ Bracket	PLSPLS 60520 SLD clamp, Battery, Quick Reference Guide
5022629	PLS RRT4	Red Magnetic Reflective Target	RRT4 red reflective target
5022634	PLS GRT4	Green Magnetic Reflective Target	GRT4 green reflective target
4985124	PLS C18	Laser Level Tool Box	PLS C18 Laser Level Tool Box



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10/2018 6011586a-en