



Technical documentation and
EU declaration of conformity

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1 Authorised representative

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2 Brief Description

The Planar Motor System consists of the components Flyway (stator), XBot (mover) and PMC (controller).

The modular Planar Motor System is a highly flexible, friction and maintenance-free alternative to classic linear transport systems. The six degrees of freedom offer the possibility to adapt your machine concept to the requirements of Industry 4.0. Absolute flexibility and scalability in X and Y direction offer new possibilities in plant layout and aftersales service.

Without contact to the surface, the XBots move levitated above the Flyways. The low voltage DC power supply of the Flyways creates a safe operating environment.

Compared to linear motor-based solutions, planar technology offers a significant increase in flexibility regarding the production process. Any path can be defined and followed dynamically, depending on the situation, or completely automatically. The integrated collision avoidance ensures safe movement of the XBots on the system.

The auto-driving function takes over the automatic route planning for all XBots at the same time without the XBots or overhanging workpiece carriers colliding.

3 Product Identification

Models:

Description	Model Number	Serial
3-series Flyway	S3-*04.0X ¹	S0YY31ZZZZ ²
4-series Flyway	S4-*S-04.0X ¹ S4-*N-04-08	S0YY41ZZZZ ²
Planar Motor Controller (PMC)	C-*6.X ³	C0YY1ZZZZ ⁴

Accessories:

Description	Model Number	Note
Flyway Power Cable	PC-*	Compatible with 04.06 Flyways
	PC-*-*	Compatible with 04.08 Flyways
Planar Motor Network (PMNet) Cable	NC-*-*	
Controller Cables	CC-*-*	

¹X is the revision number; 6 or 8

²Y is 2-digit year, ZZZZ is hexadecimal serialized

³X is the revision number; 1 or 2

⁴YY is the design year in hexadecimal, ZZZZ is hexadecimal serialized

* Please refer to the user manual for valid part numbers.

4 Manufacturing Facility

Planar Motor Incorporated

250 - 6651 Fraserwood Place

Richmond, BC, V6W 1J3, Canada

5 Notified Body (for EMC/RED)

Models: S3-*04.0X & S4-*S-04.0X

LabTest Certification Inc.

205-8291 92 Street

Delta, BC, V4G 0A4, Canada

Notified Body number: 2815

Accreditation body file number: 10052 (with the Standards Council of Canada)

Model: S4-*N-04.08

Self-declared

6 EU Declaration of Conformity

Accompanying document listed:

- EU Declaration of Conformity – Planar Motor System v26.01.PDF

7 Instructions of Use

Accompanying document listed:

- <https://docs.planarmotor.com/tech-portal/3-series>
<https://docs.planarmotor.com/tech-portal/4-series>
<https://docs.planarmotor.com/tech-portal/planar-motor-controller-pmc>

8 Relevant regulations

Directives:

- EMC Directive 2014/30/EU
- Radio Equipment Directive (RED) 2014/53/EU⁵
- Restriction of Hazardous Materials (RoHS) Directive 2011/65/EU

9 Relevant standards

Harmonized standards:

- EN 61000-6-2:2005/AC:2005
- EN 61000-6-4:2007/A1:2011
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- IEN 61800-3:2004/A1:2012
- EN 300 330 V2.1.1⁵
- EN 301 489-1 V1.9.2⁵
- EN/IEC 63000:2018

10 List of parts

Accompanying document listed:

- <https://docs.planarmotor.com/tech-portal/3-series>
- <https://docs.planarmotor.com/tech-portal/4-series>
- <https://docs.planarmotor.com/tech-portal/planar-motor-controller-pmc>
- <https://docs.planarmotor.com/tech-portal/accessories>

11 Risk Assessment

Accompanying document listed:

- <https://docs.planarmotor.com/tech-portal/safety>

⁵ The directive / standards are applicable for 3-Series system only