

PF-L Technical Datasheet



General Description

Technology	3D stereo vision / Embedded computing with artificial intelligence (AI)
Environment	Indoor
Data storage	up to 3 years (depending on the number of counters)
Data privacy	4 privacy modes / all processing on-device / only text data is transmitted
Integration	API with Swagger documentation, data pushes, remote device control

Electrical Characteristics

Power supply	Power over Ethernet, Class 0 (IEEE 802.3af, nominal 48 V, 0.21A)
	USB-C: Input: 5V=3.08A Output: 5V=0.5A
Power consumption	Maximum 15.4 W

Environmental Conditions

Required illumination	Minimum 2 lux
Operating temperature	0 °C to +45 °C / +32 °F to +113 °F
Storage temperature	Long-term storage (max. 6 months): +5 °C to +35 °C / +41 °F to +95 °F
	transport (< 1 month): -20 °C to +70 °C / -4 °F to +158 °F
Relative humidity	20 to 80 % (non-condensing)
Pollution degree	PD2 (acc. to IEC 62368)
Ingress protection	IP20 (acc. to IEC 60529)
Shelf life	6 months

PF-L Technical Datasheet

Physical Interfaces and Connections

Ethernet	IEEE 802.3ab 1000Base-T (Gigabit Ethernet)
Connector	RJ 45
Cable	Up to 100 m / 328 ft, min. Cat-5e (shielded) or higher
PoE power source	Use power supplies compliant with all locally applicable safety standards
USB-C	5V USB-C connector for alternative powering

Network Interfaces

Supported protocols	IPv6, IPv4, DHCP, HTTPS, IEEE 802.1x and password-protected configuration access
Data push protocols	HTTP(S), FTP(S), SFTP, MQTT(S), TCP, UDP

Physical Specification

Weight (incl. cover)	380 g / 0.838 lb
Dimensions (incl. cover)	174 x 80 x 31 mm / 6.85 x 3.15 x 1.22 in (L x W x H)
Color	Sensor: Black (RAL 9005) Cover ¹ : white (RAL9003) or black (RAL9005) ¹ custom colors available on request

Installation / Mounting

Mounting options	Flat surface mounting. Standard mounting plate & two M4 screws included.
Mounting height	PF-L 2.00 m to 6.00m / 6.56 ft to 19.69 ft
Mounting angle (tilt)	+/- 15° in x-axis +/- 5° in y-axis
Grounding	Sensor grounding is optional. The use of shielded cables is recommended.

Compliance

Safety	IEC 62368-1 EN 62368-1
EMC	IEC 61326-1 EN 61326-1 CISPR 11 / EN 55011 CISPR 32 / EN 55032 CISPR 35 / EN 55035 FCC 47 CFR part 15 Edition ICES-001, Issue 5
Privacy	ePrivacy seal, 4 privacy levels for GDPRcompliant operation
Others	2011/65/EU (RoHS)

PF-L Technical Datasheet

MTBF Results		
Temperature °C	Failure Rate [FIT]	MTBF [h/years]
40	1788.2	559'209 / 63.84
55	3128.5	319'641 / 36.49
60	3798.2	263'283 / 30.06
65	4625.7	216'183 / 24.68

MTBF Calculation based on IEC 61709:2017 (SN 29500:2014) for stationary use at weather protected locations (E1) for mean component ambient temperatures.

Ordering information	
Model	Description
PF-L	White cover (default)
PF-L.b	Black cover
PF-L.ralxxxx	Custom color (extra fee applies)

Published by

Xovis AG
Industriestrasse 1
CH-3052 Zollikofen
+41 32 342 04 70
info@xovis.com
www.xovis.com

Copyright reminder

© 2025 Xovis AG, Switzerland.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher. Printed and published in Switzerland.

While Xovis AG believes the information included in this publication is correct as of the date of publication, it is subject to change without notice.

All cited trademarks and registered trademarks are the property of their respective owners.