

Distance sensor head PSS-H-A03

Distance sensor head PSS-H-A03 is optimized for the sample measurements at distances between 10 and 50cm (e.g., conveyor belts, web applications, etc.) Besides integrated 20W tungsten halogen light source for sample illumination, the sensor head contains fully automated system referencing. Furthermore, pre-adjusted measurement spot size (1-20mm) allows optimal realization of individual applications. The sensor head is available with robust stainless steel or lightweight aluminum housing.



Highlights

- Integrated light source and automated white reference
- Robust stainless steel or lightweight aluminium housing
- Easy installation

Distance sensor head PSS-H-A03

Sample measurements over large distances

Datasheet



Technical data



Optimized spectral range

Spectral range: V1.7: 850-1650nm V2.1: 1100-2500nm

Ambient conditions

Operating temperature: + 5°C ... + 40°C / (41°F ... 104°F)

Storage temperature: - 15°C ... + 65°C / (5°F ... 149°F)

Relative humidity: max. 80%, non-condensing

Warm-up-time: depending on storage temperature 30 min ... 2h

Lighting

Operating voltage: + 12V DC / Power consumption: 20W

Lifetime: approx. 2000 hours of operation

SMA fiber connection options

Standard 0° connection on axis with measurement path (sensor cable in parallel)

Optional connection 90° relative to measurement path (sensor cable in parallel)

Stainless steel housing

Protection rating: IP 64 (bolted and barred)

Dimensions: ~180x165x110mm (overall, without connected cables, 0° connector)

~165x165x110mm (overall, without connected cables, with 90° connector)

Weight (with 90° deflector): 4.2kg

Aluminium housing

Protection rating: IP 64 (bolted and barred)

Dimensions: ~180x165x110mm (overall, without connected cables, 0° connector)

~165x165x110mm (overall, without connected cables, with 90° connector)

Weight (with 90° deflector): 2.2kg

Required

Fibre optic cable PSS-F-A 0.5 m, 1 m, 1.5 m, 2 m or longer in steps of 1 m

Recommended

Cable Protective Hose PSS-A-FPH for additional protection of the fibre optic cables (same length as fibre)

Spares

PSS-A-Service Kit A03 consisting of tungsten halogen source and seal

Electromechanical integration

Operating voltage: special halogen lamp: + 12V DC

Rotary solenoid/reference: + 12 ... 15V DC

Power consumption: special halogen lamp: 20W

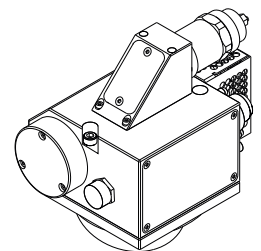
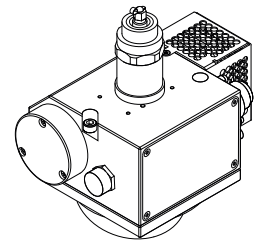
Rotary solenoid/reference: 32W (only during reference measurement)

Power consumption in operation 20W, max.: 52W (during reference measurement)

Applicable standards

Lamp systems: IEC/EN 62471:2009-03 (photobiological safety of lamps and lamp systems)

EMC: IEC/EN 61326-1:2006-10 (EMC requirements on Emission and Immunity – Electrical equipment for measurement, control, and laboratory use)



 **Polytec GmbH**
(Germany)
Polytec-Platz 1-7
76337 Waldbronn
Tel. +49 7243 604-0
info@polytec.de

Polytec GmbH
(Germany)
Vertriebs- und
Beratungsbüro
Schwarzschildstraße 1
12489 Berlin
Tel. +49 30 6392-5140

 **Polytec, Inc. (USA)**
North American
Headquarters
16400 Bake Parkway
Suites 150 & 200
Irvine, CA 92618
Tel. +1 949 943-3033
info@polytec.com

Central Office
1046 Baker Road
Dexter, MI 48130
Tel. +1 734 253-9428

East Coast Office
1 Cabot Road
Suites 101 & 102
Hudson, MA 01749
Tel. +1 508 417-1040

 **Polytec Ltd.**
(Great Britain)
Lambda House
Batford Mill
Harpenden, Herts AL5 5BZ
Tel. +44 1582 711670
info@polytec-ltd.co.uk

 **Polytec France S.A.S.**
Technosud II
Bâtiment A
99, Rue Pierre Semard
92320 Châtillon
Tel. +33 1 496569-00
info@polytec.fr

 **Polytec Japan**
Arena Tower, 13th floor
3-1-9, Shinyokohama
Kohoku-ku, Yokohama-shi
Kanagawa 222-0033
Tel. +81 45 478-6980
info@polytec.co.jp

 **Polytec South-East Asia**
Pte. Ltd.
Blk 4010 Ang Mo Kio Ave 10
#06-06 TechPlace I
Singapore 569626
Tel. +65 64510886
info@polytec-sea.com

 **Polytec China Ltd.**
Room 402, Tower B
Minmetals Plaza
No. 5 Chaoyang North Ave
Dongcheng District
100010 Beijing
Tel. +86 10 65682591
info-cn@polytec.com