

1) not included in scope of delivery, 2) Housing length, 3) Recommended bracket distance, 4) Null point, 5) Nominal length, 6) Mechanical null point, 7) Stroke



Display/Operation

Setting Output curve rising/falling

Electrical connection

Connection M12x1, 8-pin
 Connection version axial
 Polarity reversal protected to 36 V
 Short-circuit protection to GND and to 36 V DC

Electrical data

Current consumption max. at 24 V DC 90 mA
 Galvanic isolation yes
 Inrush current ≤ 3 A/0.5ms
 Operating voltage Ub 18...30VDC
 Output current max. 6 mA
 Output signal adjustable using programming inputs
 Overvoltage protection to 36 V
 Residual ripple max. 0.5Vpp
 Switch-on delay max. 500ms
 Voltage-proof up to (GND to housing) 500 V DC

Environmental conditions

Ambient temperature -20...85 °C
 EN 60068-2-27, Shock 100 g, 6 ms
 EN 60068-2-6, Vibration 12 g, 10...2000 Hz
 IP rating IP54 with connector
 Storage temperature -40...100 °C

Functional safety

MTTF (40 °C) 77 a

General data

Approval/Conformity CE, cULus, EAC, WEEE
 Generation 1
 Version Version P1

Material

Cover material Zinc, Die-cast, nickel plated
 Housing material Aluminum
 Housing material, surface protection Anodized

Mechanical data

Housing length 550 mm
 Hub 460 mm
 Mounting Mounting clamps
 Tightening torque max. 2 Nm

Output/Interface

Analog output Analog, voltage -10...10 V
 Bracket distance, recommended 435 mm
 Output characteristic linear rising/falling



PT. AEC Indo System, Jakarta Barat, INDONESIA.

Tel : +62 (21) 5433 3361 Fax: +62 (21) 5433 3361

E- mail : sales@aecsystem.co.id

URL : https://www.aecsystem.co.id

Inductive Sensors
BIW1-G310-M0450-P1-S115
Order Code: BIW0018

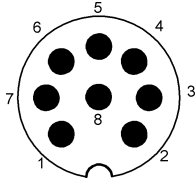
BALLUFF

Range/Distance

Measuring range	450 mm
Nominal length	450 mm
Non-linearity max.	±90 µm

Reproducibility	≤10 µm
Resolution	≤ 0.3 mV
Sampling rate typ.	32 kHz
Traverse speed max.	7 m/s

Connector Drawings



aec INDO
system

Wiring Diagrams

Pin	
1	Lb
2	0 V
3	NC
4	La
5	-10 V...+10 V
6	GND
7	+24V DC
8	NC

aec INDO
system

[Specialized]

Control and Automations components

PT. AEC Indo System, Jakarta Barat, INDONESIA.

Tel : +62 (21) 5433 3361 Fax: +62 (21) 5433 3361

E- mail : sales@aecsystem.co.id

URL : <https://www.aecsystem.co.id>

[Address]

Komplek Rukan CBD Palm 2, Blok B1, Palm II, No. 3,
Pegadungan, Kalideres, Jakarta Barat, 11830, Indonesia.