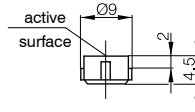
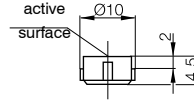


Size	$\phi 9 \times 4.5$	$\phi 10 \times 4.5$	$\phi 12 \times 6$
Housing material	EP	EP	EP
Weight	0.5g	0.7g	1.2g
Available for Mini-flag system BIS C/R series	○	○	○
Dimension			



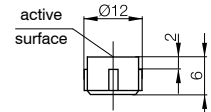
fixing hole  $\phi 9H11$

PI0120



fixing hole  $\phi 10H11$

PI0119



fixing hole  $\phi 12H11$

PI0009



Type	511 bytes/ EEPROM 1023 bytes/ EEPROM 2047 bytes/ EEPROM 8K bytes/ FRAM	BIS C-121-04/L	BIS C-122-04/L BIS C-122-11/L	BIS C-105-05/A
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Operating temperature range	0...+70°C	0...+70°C	-30...+70°C
Storage temperature range <sup>1)</sup>	-30...+85°C <sup>2)</sup>	-30...+85°C <sup>2)</sup>	-30...+85°C <sup>2)</sup>
Protection class (Per IEC 60529)	IP 68	IP 68	IP 68
Mounting in steel	flush non-flush	flush non-flush	flush non-flush

Applicable R/W head and max. reading distance	BIS C-300	2mm	3mm	BIS C-300	2.5mm	3mm	BIS C-300	3.5mm	4mm
	BIS C-302	1.5mm	2.5mm	BIS C-302	2mm	2.5mm	BIS C-302	3mm	3.5mm
	BIS C-305	2mm	3mm	BIS C-305	2.5mm	3mm	BIS C-305	5mm	6mm
	BIS C-306	2mm	3mm	BIS C-306	2.5mm	3mm	BIS C-306	3.5mm	4mm
	BIS C-325	2.5mm	3mm	BIS C-325	2.5mm	3mm	BIS C-325	4.5mm	5mm
	BIS C-353		7mm	BIS C-353		7mm	BIS C-353	7mm	

Remarks			
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- 1) When in transit or stored as well as when out side of
- 2) Although storage at max.120 degree C is possible, a data retention period and write cycle decreases by temperature and time.

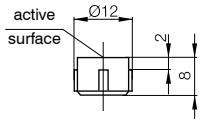
Read/Write cycle

Memory type	data retention period	Write cycle		Read cycle
		up to 30°C	up to 70°C	
511 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
1023 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
2047 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
8K bytes / FRAM	10 years	Unlimited	Unlimited	Unlimited

$\phi 12 \times 8$
EP
1.8g

$\phi 16 \times 7$
EP
2g

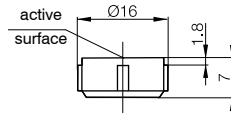
M16 x 10.5
Nylon
3g



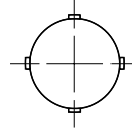
fixing hole  $\phi 12H11$



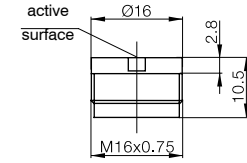
PI0008



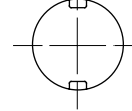
fixing hole  $\phi 16H11$



PI0057



for wrench



PI0189

<b>BIS C-103-05/A</b>
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<b>BIS C-130-05/L</b>
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<b>BIS C-100-05/A</b>
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-30...+70°C
-30...+85°C <sup>2)</sup>
IP 68

-30...+70°C
-30...+85°C <sup>2)</sup>
IP 68

0...+70°C
-20...+85°C
IP 68

	flush	non-flush
BIS C-300	3.5mm	4mm
BIS C-302	3mm	3.5mm
BIS C-305	5mm	6mm
BIS C-306	3.5mm	4mm
BIS C-325	4.5mm	5mm
BIS C-353	7mm	

	flush	non-flush (mount in resin)
BIS C-300	4mm	4mm
BIS C-305	6mm	7mm
BIS C-306	4mm	4mm
BIS C-310		11mm
BIS C-315		18mm
BIS C-319	6mm	13mm
BIS C-323		11mm
BIS C-325	4mm	5mm
BIS C-326		13mm
BIS C-353	8mm	13mm

	flush	non-flush
BIS C-300	4mm	4mm
BIS C-302	4mm	4mm
BIS C-305	4mm	4mm
BIS C-306	4mm	4mm
BIS C-325	4mm	4mm
BIS C-353	9mm	

**BIS**

**C**

Products table

Connection

Data carrier

R/W head

Antenna cable

ID converter

Processor

ID cable

IF cable




PC unit

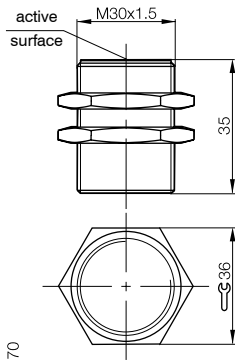
Handy unit

Data coupler unit

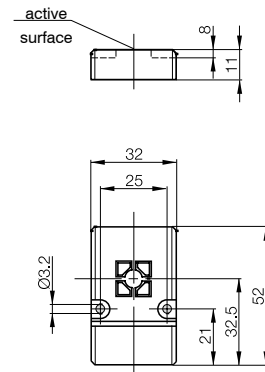
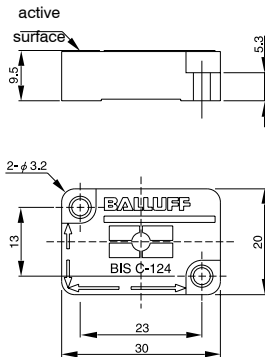
installation notes



<b>M30 x 35</b>	<b>30 x 20 x 9.5</b>	<b>52 x 32 x 11</b>
Nickel plated brass	Nylon	PBT
<b>54g</b>	<b>8g</b>	<b>28g</b>
		



PI0170



	<b>BIS C-104-11/A</b> <b>BIS C-104-32/A</b>	<b>BIS C-124-05</b>	<b>BIS C-108-05/L</b> <b>BIS C-108-11/L</b> <b>BIS C-108-32/L</b>
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	-30...+70°C -30...+85°C	0...+70°C -20...+85°C	-30...+70°C -30...+85°C
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	<b>IP 67</b>	<b>IP 68</b>	<b>IP 68</b>
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	flush	non-flush		flush	non-flush		flush	non-flush
BIS C-310	11mm	12mm	BIS C-300	3mm	3mm	BIS C-305		6mm
BIS C-315	13mm	14mm	BIS C-305		6mm	BIS C-310	5mm	12mm
BIS C-323	11mm	12mm	BIS C-306	3mm	3mm	BIS C-315	10mm	16mm
BIS C-324	11mm	12mm	BIS C-310		10mm	BIS C-318		7mm
BIS C-353	15mm		BIS C-353		14mm	BIS C-319	11mm	14mm
						BIS C-323		12mm
						BIS C-324		12mm
						BIS C-353		17mm

Tightening torque 40Nm

**BIS**

**C**

Products table

Connection

**Data carrier**

R/W head

Antenna cable

ID converter

Processor

ID cable

IF cable

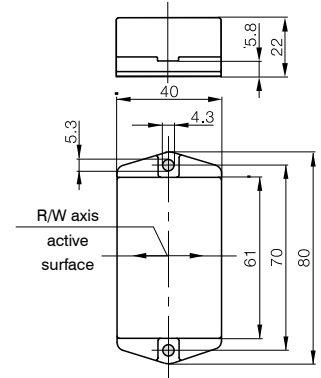
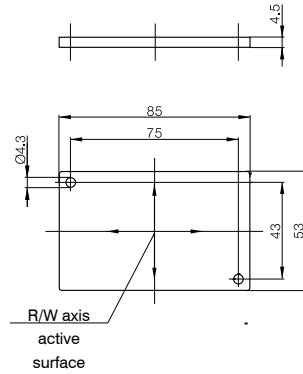
PC unit

Handy unit

Data coupler unit

installation notes

Size	85 x 53 x 4.5	80 x 40 x 22
Housing material	ABS	POM
Weight	30g	75g
Available for Mini-flag system BIS C/R series	-	-
Dimension		



Type	511 bytes / EEPROM		
	1023 bytes / EEPROM	BIS C-127-05/L	BIS C-150-05/A
	2047 bytes / EEPROM		BIS C-150-11/A
	8K bytes / FRAM		BIS C-150-32/A

Operating temperature range	0...+60°C	-30...+70°C
Storage temperature range <sup>1)</sup>	-20...+60°C	-30...+85°C
Protection class (Per IEC 60529)	IP 65	IP 68

Mounting in steel	flush	non-flush (mount in resin)	flush	non-flush
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Applicable R/W head and max. reading distance	BIS C-315	30mm	BIS C-350	100mm
	BIS C-318	25mm	BIS C-351	50mm
			BIS C-352	50mm

Remarks	
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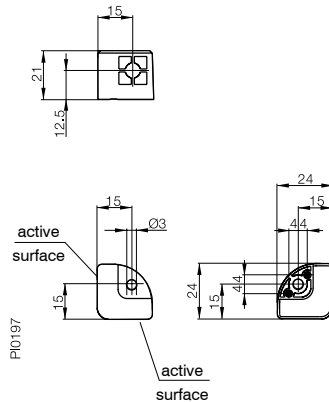
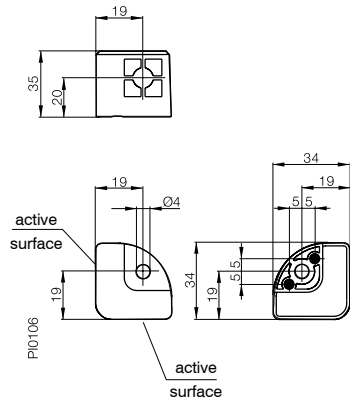
1) When in transit or stored as well as when out side of

Read/Write cycle

Memory type	data retention period	Write cycle		Read cycle
		up to 30°C	up to 70°C	
511 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
1023 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
2047 bytes / EEPROM	8 years	1,000,000	500,000	Unlimited
8K bytes / FRAM	10 years	Unlimited	Unlimited	Unlimited

<b>34 x 34</b>
<b>PBT</b>
<b>15g</b>
-

<b>24 x 24</b>
<b>PBT</b>
<b>10g</b>
-



<b>BIS C-190-05/L</b>
<b>BIS C-190-11/L</b>
<b>BIS C-190-32/L</b>

<b>BIS C-191-05/L</b>
<b>BIS C-191-11/L</b>

<b>-30...+70°C</b>
<b>-30...+85°C</b>
<b>IP 68</b>

<b>-30...+70°C</b>
<b>-30...+85°C</b>
<b>IP 68</b>

	flush	non-flush
<b>BIS C-310</b>		<b>11mm</b>
<b>BIS C-315</b>		<b>20mm</b>
<b>BIS C-318</b>		<b>8mm</b>
<b>BIS C-323</b>		<b>11mm</b>
<b>BIS C-324</b>		<b>11mm</b>
<b>BIS C-326</b>		<b>18mm</b>

	flush	non-flush
<b>BIS C-300</b>		<b>3.5mm</b>
<b>BIS C-306</b>		<b>3.5mm</b>
<b>BIS C-310</b>		<b>10mm</b>
<b>BIS C-319</b>		<b>11mm</b>
<b>BIS C-323</b>		<b>10mm</b>
<b>BIS C-324</b>		<b>10mm</b>
<b>BIS C-325</b>		<b>3.5mm</b>

90° double-sided communication<sup>2)</sup>  
Tightening torque 1.5Nm

90° double-sided communication<sup>2)</sup>  
Tightening torque 1.5Nm

2) Reading or writing can be performed on one active surface as desired.

**BIS**

**C**

Products table

Connection

**Data carrier**

R/W head

Antenna cable

ID converter

Processor

ID cable

IF cable

PC unit

Handy unit

Data coupler unit

installation notes