

Measurements with BIS L-409 read heads through stainless sheet V2A 1.4301Values are also applicable to BIS L-400 and 405!

Used components:

Data carriers: BIS L-203-03/L  12.4mm TagBIS L-200-03/L  20mm TagBIS L-201-03/L  30mm TagBIS L-202-03/L  50mm Tag

Read heads: BIS L-409-045-001-07-S4



BIS L-409-045-002-07-S4



BIS L-409-045-003-07-S4



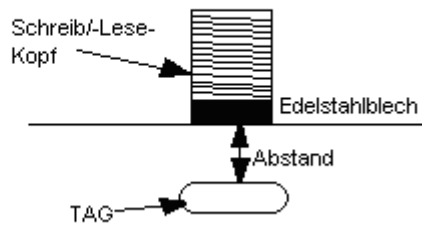
BIS L-409-045-004-07-S4



IO-Link – Master:

BNI-PBS-502-000-Z001



Description of the measurement

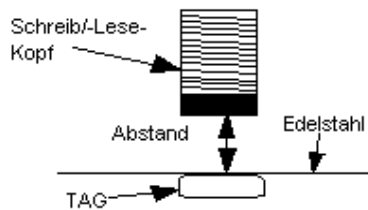
Stainless steel plate: 100*100*0.4mm
 Between data carrier and read head
 - determine the maximum read head distances
Stainless sheet directly against read head

Test results:

BIS L-409-045-001-07-S4		
		
Measured values without deduction		
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm
BIS L-200-03/L	0-25	not possible, no CTP
BIS L-201-03/L	0-35	1-8
BIS L-202-03/L	0-48	2-15
BIS L-203-03/L	0-16	not possible, no CTP
BIS L-409-045-002-07-S4		
		
Measured values without deduction		
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm
BIS L-200-03/L	0-25	1-9
BIS L-201-03/L	0-35	4-13
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	2-8
BIS L-409-045-003-07-S4		
		
Measured values without deduction		
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm
BIS L-200-03/L	not in datasheet	not possible, no CTP
BIS L-201-03/L	not in datasheet	not possible, no CTP
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	not possible, no CTP
BIS L-409-045-004-07-S4		
		
Measured values without deduction		
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm
BIS L-200-03/L	0-25	2-13
BIS L-201-03/L	0-35	3-14
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	4-9

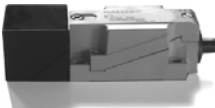
Measurement for BIS L-409 read heads through stainless sheet V2A 1.4301

Description of the measurement:



Stainless steel plate: 100*100*0.4mm
 Between data carrier and read head
 - determine the maximum read head distances
Stainless sheet directly against read head

Measurement results:

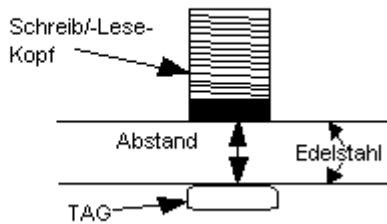
 BIS L-409-045-001-07-S4			Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm	
BIS L-200-03	0-25	8-15	
BIS L-201-03	0-35	4-18	
BIS L-202-03	0-48	6-23	
BIS L-203-03	0-16	3-8	

 BIS L-409-045-002-07-S4			Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm	
BIS L-200-03	0-15	2-10	
BIS L-201-03	0-18	2-10	
BIS L-202-03	not in datasheet	not possible, no CTP	
BIS L-203-03	0-10	2-8	

 BIS L-409-045-003-07-S4			Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm	
BIS L-200-03	not in datasheet	not possible, no CTP	
BIS L-201-03	not in datasheet	not possible, no CTP	
BIS L-202-03	not in datasheet	not possible, no CTP	
BIS L-203-03	0-7	1-4	

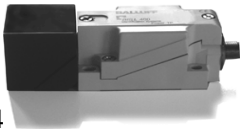
 BIS L-409-045-004-07-S4			Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm	
BIS L-200-03	0-15	2-10	
BIS L-201-03	0-18	2-10	
BIS L-202-03	not in datasheet	not possible, no CTP	
BIS L-203-03	0-10	2-8	

Measurement for BIS L-409 read heads through 2 stainless steel sheets V2A 1.4301
Description of the measurement:



Stainless steel plate: 100*100*0.4mm
Between data carrier and read head
- determine the maximum read head distances.
One sheet each on the data carrier and read head.

Measurement results:

		
BIS L-409-045-001-07-S4		Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Distance through stainless sheet 0.4mm
BIS L-200-03/L	0-25	not possible, no CTP
BIS L-201-03/L	0-35	1-3
BIS L-202-03/L	0-48	1-3
BIS L-203-03/L	0-16	not possible, no CTP

		
BIS L-409-045-002-07-S4		Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Dist. through 2x stainless sheet 0.4mm
BIS L-200-03/L	0-25	1-4
BIS L-201-03/L	0-35	1-2.5
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	1-3

		
BIS L-409-045-003-07-S4		Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Dist. through 2x stainless sheet 0.4mm
BIS L-200-03/L	not in datasheet	not possible, no CTP
BIS L-201-03/L	not in datasheet	not possible, no CTP
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	not possible, no CTP

		
BIS L-409-045-004-07-S4		Measured values without deduction
Data carrier	Air gap per datasheet (mm)	Dist. through 2x stainless sheet 0.4mm
BIS L-200-03/L	0-25	1-4
BIS L-201-03/L	0-35	1-2,5
BIS L-202-03/L	not in datasheet	not possible, no CTP
BIS L-203-03/L	0-16	1-3