

5.6 SLA 71

Application area

The SLA 71 is a read/write antenna in the middle of the performance range. It permits greater distances to the evaluation unit (ASM). The length of the line between antenna and evaluation unit is 55 m (max.). The SLA 71 can be operated on the following interfaces: ASM 724 and ASM 754.



Figure 5-38 Read/write antenna SLA 71

Ordering data

Table 5-15 Ordering data for the SLA 71

Read/write antenna SLA 71	6GT2 301-2BB00
Accessories:	
Standard connecting cable between SLA 71 ↔ ASM 724, and ASM 754; length 5 m (not included with the SLA 71)	6GT2 391-1AH50
Extension for antenna line 6GT2 391-1AH50; length 25 m	6GT2 391-1BN25

Technical data

Table 5-16 Technical data of the SLA 71

Inductive interface to MDS	
Read/write distances (SLG - MDS), max.	100 mm (see field data)
Transmission frequency	13.56 MHz
Serial interface to ASM	RS 422
Data transmission speed	106 kbps
Line length to ASM, max.	55 m
Voltage (only via ASM)	12 VDC
Current consumption at room temperature	160 mA (typical)
MTBF (at +40 °C)	1 x 10 ⁵ hours

Table 5-16 Technical data of the SLA 71

Housing	
Dimensions without connecting cable (L x W x H in mm)	75 x 75 x 20
Color	Anthracite
Material	Polyamide 12
Connector	0.5 m cable with 8-pin M12 connector (pin on device side)
Protection rating in accordance with EN 60 529	IP 65
Shock in accordance with EN 60 721-3-7/class 7M2	30 g ¹
Total shock response spectrum, type II	
Vibration in accordance with EN 60 721-3-7/class 7M2	5 g (9 to 200 Hz) ¹ 10 g (200 to 500 Hz) ¹
Mounting of the SLA 71	2 M5 screws
Tightening torque at 20 °C	≤ 2 Nm
Ambient temperature	
During operation	–25 °C to +70 °C
During transportation and storage	–40 °C to +85 °C
Weight without connecting cable (approx.)	150 g

- 1 **Warning:** The values for shock and vibration are maximum values and must not occur continuously.

Field data

Table 5-17 Field data of SLA 71

Working distance (S _a)	10 to 70 mm
Limit distance (S _g)	100 mm
Diameter of transmission window (L _d)	Depends on MDS
Minimum distance from SLA to SLA (D)	D _a > 800 mm

Transmission window

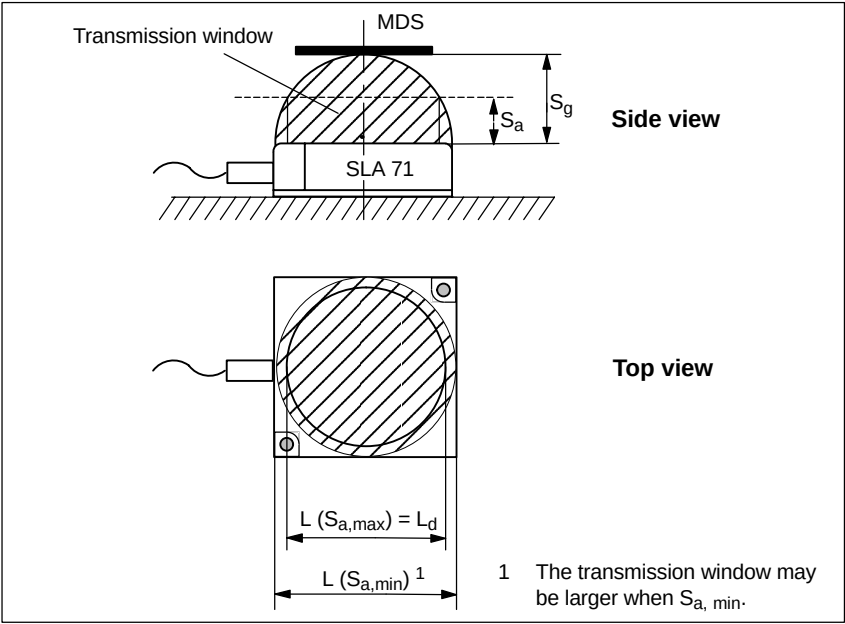


Figure 5-39 Transmission window of the SLA 71

Metal-free space

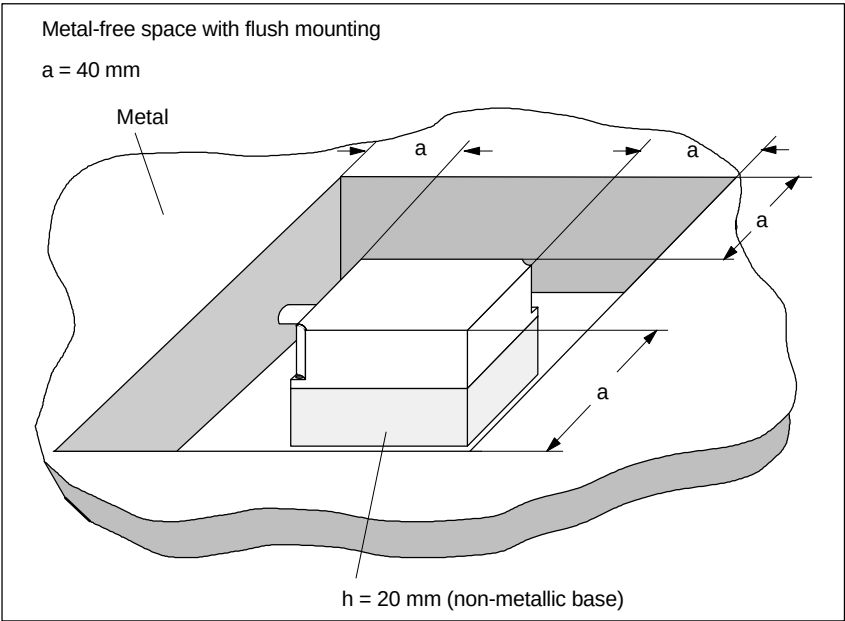


Figure 5-40 Metal-free space for SLA 71

FCC information

Made in Germany

SIEMENS MOBY E SLA 71

FCC ID: NXWMOBYE-SLA71

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES: OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED; INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Note

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment:
Such modifications could void the user's authority to operate the equipment.

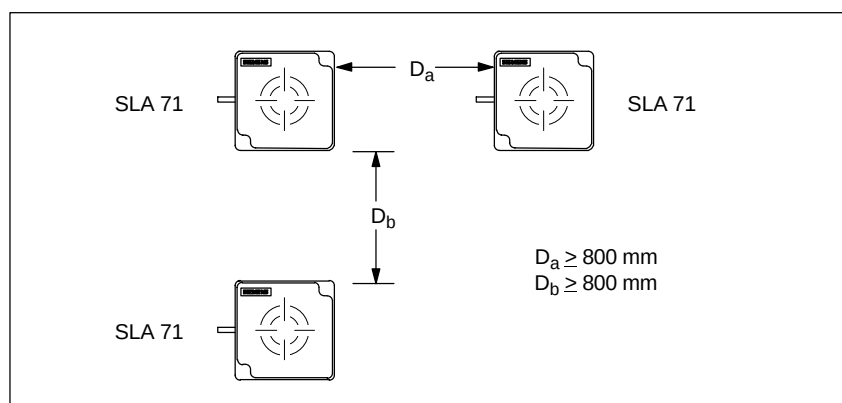
Definition of the distance D

Figure 5-41 Distance D: SLA 71

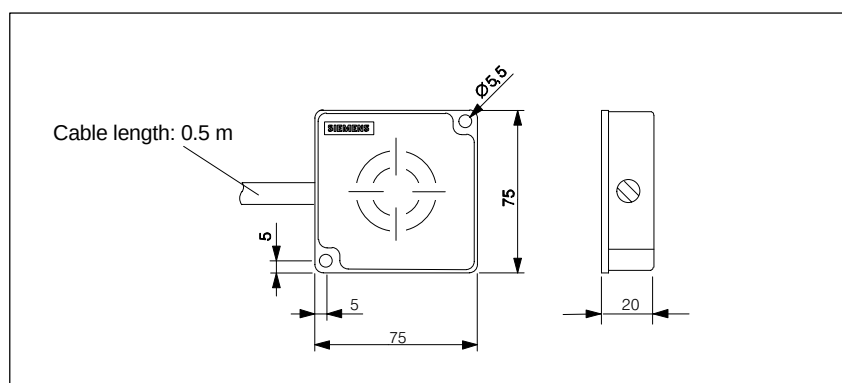
Dimensions (in mm)

Figure 5-42 Dimensioned drawing of SLA 71

