

Ordering information

| | | 1 | AMSA-3A | - 25 | -948 | -S | -SU |
|--------------------|--|---|---------|------|------|----|-----|
| Number | | | | | | | |
| Туре | AMSA-3A (ana AMSA-3D (digit | 0, | | | | | |
| Size | 25, 35, 45, 55, 65 | | | | | | |
| Length in mm | (magnetised length of scale) | | | | | | |
| Ref. mark | S Reference marks every 50mm C Distance coded K Customer specific (drawing is necessary) | | | | | | |
| Cable Interface | MU SU RU OO | 0,3 m cable with mounting base 3 m cable with plug-in connector 12-pole union nut 3 m cable with plug-in Connector 12-pole external thread System is to be supplied without reading head | | | | | |

Spare parts

Scanning unit SMA 3A-SU 580 101 892 580 102 317 580 102 320

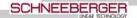
Scanning unit SMA 3A-MU Scanning unit SMA 3A-RU 580 102 431 580 102 432 Scanning unit SMD 3A – SD Scanning unit SMD 3A – MD

MONORAIL AMSA-3A

SCHNEEBERGER

Integrated Linear Distance Measuring System

A complete package providing high precision and reliability, with significant design advantages



The Integrated Measuring System AMSA-3A For Demanding Targets In General Application And Machine Tool

| AMSA-3A from | |
|--------------|--|
| SCHNEEBERGER | |

The product "Advanced Mesuring System Analog" AMSA-3A is designed for the following applications.

- Short and compact axis with special accuracy requirements
- Unknown environment
- Readhead cannot be changed with axial access
- Operation without central lubrication
- Short stroke operation with extra readhead lubrication

The used sensors and electronics are based on the AMSA-30. The scale is interchangeable with AMSA-30 products

Reduced complexity and minimised process costs

With the MONORAIL AMSA-4A Schneeberger provides you a complete integrated solution with unique advantages in

Accuracy

Installation and set-up

- The expansion coefficient is the same as steel
- Good thermal coupling with the base Measuring close to the working process
- Optimum alignment of the measurement
- system

AMSA-3A

Vibration- and shock-resistant

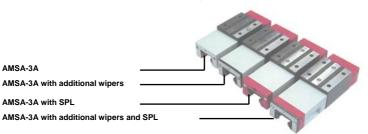
Your design process

- Space-saving system
- Short construction time, no special fitting is necessarv
- Short thermal distances to the machine spindle

- Delivered complete to the customers specification and ready for installation
- No alignment required
- No additional brackets or machining
- The integrated system means simple and easy installation and set-up process.

Service and maintenance

- Single readhead covers all rail sizes
- Simple and precise exchange of measuring-head by means of two fixing screws
- The system is sealed against dust and liquids
- Resistant to oils, greases and coolants
- Measuring scale is corrosion resistant
- Cover strip protects the measurement scale against damage from swarf and through handling
- 100% interchange ability of components Insensitive to all kind of contamination and
- dirt



| Technical data | System characteristics Material measure Signal period Reference marks Max. length Accuracy Accuracy class Periodic deviation Resolution Hysteresis Movement Max. speed Max. acceleration Environment Protection class Operating temperature Storage temperature Vibration / Schock | Hard magnetic periodic N - S division 200 μm every 50 mm, distance-coded, customer-specific 6000 mm +/- 5 μm / 1000 mm +/-2 μm / 40 mm +/- 0,7 μm 0,0625 - 4 μm in Connection with SMEa < 0,5 μm - 1 μm 3 m/s 30 g IP 67 0° - +70° C -20° - +70° C 30 g | | | | |
|----------------|---|--|--|--|--|--|
| | Vibration / Schock Interfaces analog digital | 30 g Voltage interface 1 Vpp, 11 μApp A quad B signal with error signal in combination with SMEa Direct Outputs in preparation | | | | |
| | Power supply Current demand | 5 +/- 0,25 V 40 mA per reading head | | | | |

| MR Size | Lw MRA/MRC | Lw MRB/MRD | Ls | L9 MRA/MRC | L9 MRB/MRD | L10 | A1 | A2 | Аз |
|------------|---------------|---------------|------|---------------|---------------|-----|------|----|-----|
| 25 | 57 | 79,4 | 12 | 144 | 166,4 | 75 | 23,5 | 31 | 15 |
| 35 | 76 | 103 | 16,5 | 172,5 | 199,5 | 80 | 34 | 34 | 15 |
| 45 | 100 | 135 | 18,8 | 200,8 | 235,2 | 82 | 42 | 42 | 11 |
| 55 | 120 | 162 | 21,8 | 226,8 | 268,8 | 85 | 49 | 49 | 6,5 |
| 65 | - | 201 | 32 | - | 323 | 90 | 66 | 66 | 0 |

