

MSA 350 SERIES - TECHNICAL DATA

Features:

- Max. measuring length: 3040 mm
- Rigid mounting: large cross-section
- Mounting holes on the extrusion ends
- Reference marks
- Additional mounting support for longer measuring lengths

Scale model	System resolution [μm]	Accuracy grades [μm/m]	Grating pitch [μm]	Integrated interpolation	Max. velocity [m/s]	
continuousmomentary						
Square-wave signals with integrated Subdividing Electronics						
MSA 350.24	10	±10	40	times 1	1	2
MSA 350.23	5	±5, ±10	20	times 1	1	2
MSA 350.64	2	±5, ±10	40	times 5	1	2
MSA 350.63	1	±5, ±10	20	times 5	1	1
MSA 350.73	0.5	±5, ±10	20	times 10	1	1

Other accuracy grades or grating pitches (e. g. inch) on request

Standard measuring lengths [mm]:

170, 220, 270, 320, 370, 420, 470, 520, 620, 670, 720, 770, 820, 920, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 2040, 2240, 2440, 2640, 2840, 3040

Scale unit:

Glass scale ($\alpha = 8.5 \times 10^{-6}/^\circ\text{K}$)

Location of the reference marks:

- Distance-coded reference marks:
after traveling max. 20 mm
the absolute position is available
- Up to measuring length 920 mm: one reference mark
in the middle of the measuring length or 35 mm from both
ends of measuring length; measuring length 1040 mm
and longer: 45 mm from both ends of measuring length
- Optional: one reference mark at any location;
additional reference marks by distances of $n \times 50$ mm

Required moving force:

- With standard sealing lips: $< 3 \text{ N}$
- With low drag sealing lips: $< 0.2 \text{ N}$

RoHS-conformity:

The Linear Encoders of the MSA 350 series comply with the guideline of the RoHS-directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Environmental sealing acc. EN 60529:

- With standard sealing lips: IP 53
- With DA 400: IP 64

Permissible temperature

-20°C to $+70^\circ\text{C}$ (storage)
 0°C to $+50^\circ\text{C}$ (operation)

Weight (approx.):

3 kg/m (scale spar) + 0.4 kg (reading head with 3 m cable)

Signal output (optional):

- Square-wave signals (single ended)
with integrated Subdividing Electronics
- Square-wave signals (differential)
via Line Driver RS 422 Standard
with integrated Subdividing Electronics

Power supply:

$\pm 5 \text{ V} \pm 5\%$, $< 150 \text{ mA}$ (without interpolation, unloaded)
 $< 200 \text{ mA}$ (with interpolation, unloaded)

Msa 350 Service Manual

Brian Nesbitt



Msa 350 Service Manual:

Monthly Catalogue, United States Public Documents, 1994 *Monthly Catalog of United States Government Publications*, 2000 **Concrete Pavement Maintenance Manual** Burks Green, 2001 **Handbook of Valves and Actuators** Brian Nesbitt, 2007-08-02 Industries which use pumps seals and pipes will almost certainly also use valves in their systems Someone in each industry needs to be able to design purchase or maintain the right valve for the job in hand and that can amount to a lot of valves world wide Here is a single resource which is aimed at those designers and end users plus their engineering staff Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail found in this volume Its international approach is no accident it will have world wide take up Ideal reference for industry Practical approach compared with competition Buyers guide included *Flying*, 2004 *The AOPA Pilot*, 2004 **The Aircraft Owner's Handbook** Timothy R. V. Foster, 1983 **Voice & Data Communications Handbook, Fifth Edition** Regis "Bud" Bates, Donald Gregory, 2006-12-13 The Definitive Telecommunications Reference Fully Updated Understand cutting edge telecommunication and networking technologies using this straightforward real world implementation guide Fully revised to cover all of the latest transmission protocols Voice Data Communications Handbook Fifth Edition covers all the bases from analog transmission VPNs and LANs to DSL CATV WiFi VoIP and GSM This authoritative volume covers the ins and outs of each vital topic supplies practical examples and solutions and provides helpful self tests You ll also find up to date information on regulatory standards switches routers frame relay and security procedures Use new wireless technologies Understand the building blocks of analog transmission bandwidth amplitude and frequency Provide transparent communications using the OSI model and seven layer architecture Comply with local and federal regulations and RBOCs Transmit information using routers SS7 PBX and KTS switches Send and receive data across TCP IP wireless cellular and optical systems Create a connection using a modem Connect to multiple VPNs and LANs using frame relay ATM and MPLS Deploy high speed broadband access with cable modems xDSL and CATV Get details on VoIP SIP and voice over data services Increase bandwidth using IP telephony techniques and PBX equipment

Voice & Data Communications Handbook, Fifth Edition Regis J. Bates, Donald W. Gregory, 2007-01-03 The Definitive Telecommunications Reference Fully Updated Understand cutting edge telecommunication and networking technologies using this straightforward real world implementation guide Fully revised to cover all of the latest transmission protocols Voice Data Communications Handbook Fifth Edition covers all the bases from analog transmission VPNs and LANs to DSL CATV WiFi VoIP and GSM This authoritative volume covers the ins and outs of each vital topic supplies practical examples and solutions and provides helpful self tests You ll also find up to date information on regulatory standards switches routers frame relay and security procedures Use new wireless technologies Understand the building blocks of analog transmission bandwidth amplitude and frequency Provide transparent communications using the OSI model and seven layer architecture

Comply with local and federal regulations and RBOCs Transmit information using routers SS7 PBX and KTS switches Send and receive data across TCP IP wireless cellular and optical systems Create a connection using a modem Connect to multiple VPNs and LANs using frame relay ATM and MPLS Deploy high speed broadband access with cable modems xDSL and CATV Get details on VoIP SIP and voice over data services Increase bandwidth using IP telephony techniques and PBX equipment

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