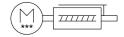
Mini slide unit EGSS-BS-KF-45-50-10P-ST-M-H1-PLK-AA

FESTO

Part number: 8083815





Data sheet

Feature	Value
Working stroke	50 mm
Size	45
Stroke reserve	0 mm
Screw diameter	10 mm
Spindle pitch	10 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electrical mini-slide with ball screw drive With integrated drive
Spindle type	Ball screw drive
Position sensing	Motor encoder For proximity sensor
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	5 m/s²
Max. speed	0.25 m/s
Repetition accuracy	±0.015 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current of digital logic outputs	100 mA
Max. current consumption	3 A
Logic max. current consumption	300 mA
DC nominal voltage	24 V
Nominal current	3 A
Parameterization interface	IO-Link® User interface
Permissible voltage fluctuations	+/- 15 %

Rover supply, Connection Ethnology Power supply, Connection technology A pressupply, Connection technology A per EU ROM (Compliance mark Certification RCM Compliance mark Certification A per EU ROM (Compliance mark Certification A per EU ROM (Compliance mark Certification Corrosion resistance class (CRC) O No corrosion stress LABS (PWNS) conformity VOMAA1,364 zone III Storage temperature 20°C_6.00°C Relative air humidity 0 - 90 % Regree of protection PAO Regree of protection PAO Rows force Py 1314 N Max. force Py 1314 N Max. force P? 1314 N Tay with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row with theoretical service life of 100 km (from a guide perspective onth) Row wit	Feature	Value
Power supply, number of pins/wires 4	Power supply, type of connection	Plug
Certification Re.M. compliance mark Ex marking (See declaration of conformity) As per EU RIA Circcive Corrosion resistance class (CRC) O No. corrosion stress As Per EU Riccive Corrosion resistance class (CRC) O No. corrosion stress Storage temperature 1-20 °C60 °C Marking in fundity Degree of protection PiPa0 Arabient temperature Above an ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. force fy 1314 N Max. force with theoretical service life of 100 km (from a guide perspective only) Max. torque Mr Max. torque Mr Max. storque Mr M	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Ef marking (see declaration of conformity) As per EU RG (Fischive As per EU RG (Fischive Corrosion resistance dass (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Storage temperature -20°C60°C Relative air humidity O - 90 % Degree of protection Above an ambient temperature O°C50°C Note on ambient temperature Above an ambient temperature of 20°C., the power must be reduced by 28°c per K. Max. Force Fy 1314 N Max. Force Fy 1314 N Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Above an ambient temperature of 30°C, the power must be reduced by 28°c per K. Max. Force Fy 1314 N Fy with theoretical service life of 100 km (from a guide perspective only) Above an ambient temperature of 30°C, the power must be reduced by 28°c per K. Fy with theoretical service life of 100 km (from a guide perspective only) Above an ambient temperature of 30°C, the power must be reduced by 28°c per K. Fy with theoretical service life of 100 km (from a guide perspective only) Above an ambient temperature of 30°C, the power must be reduced by 28°c per K. Fy with theoretical service life of 100 km (from a guide perspective only) Above an ambient temperature of 30°C, the power must be reduced by 28°c per K. As to the correct of the correct on the correct of the correct of the correct on the correct of the correct of the correct of the correct of the correct on the correct of the co	Power supply, number of pins/wires	4
As per EU Rorls directive Corrosion resistance class (ERC) On No corrosion stress LABS (PVIS) contormity VDMA24364 zone III Storage temperature 20 °C60 °C Relative air humidity O. 90 % Degree of protection Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. force Fz 1314 N Max. force by 13240 N Max. force by 1340 N Max. force force	Certification	RCM compliance mark
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Relative air humidility Degree of protection Relative air humidility Degree of protection Relative air humidility Degree of protection Rote on ambient temperature O **C**.50 **C** Above an ambient temperature of 30 **C**, the power must be reduced by 2% per K. Max. Force Fy Rote on ambient temperature of 30 **C**, the power must be reduced by 2% per K. Max. Force Fz Rote of Ro	LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection Ambient temperature Anote on ambient temperature Above an ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2°S per K. Max. force Fy 1314 N Max. force Fz 1314 N Max. force Fz 1314 N Max. forque Fy Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Amax. torque Mx Max. torque Mx Max. torque My Anote My Max. torque My Anote My A	Storage temperature	-20 °C60 °C
Ambient temperature Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 28°s, per K. Max. force Ey 1314 N Max. force Fz 1314 N Fy with theoretical service life of 100 km (from a guide perspective only) Fx with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx S. 14 Nm Max. torque My 7.05 Nm Max. torque My 8.14 Nm 8.1	Relative air humidity	0 - 90 %
Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. force Fy 1314 N Max. force F2 1314 N 1314	Degree of protection	IP40
2% per K.	Ambient temperature	0 °C50 °C
Max. force Fz Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Amax. torque Mx Max. torque Mx Max. torque Mx Max. torque Mx A. torque Mx A. torque Mx A. with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx A.	Note on ambient temperature	
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Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 8.14 Nm 7.05 Nm Max. torque Mx 7.05 Nm Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx wath theoretical service life of 100 km (from a guide perspective only) Mx wath theoretical service life of 100 km (from a guide perspective only) Mx wath theoretical service life of 100 km (from a guide perspective only) Mx wath theoretical service life of 100 km (from a guide perspective only) Mx wath theoretical service life of 100 km (from a guide perspective only) Mx w	Max. force Fz	1314 N
Max. torque Mx Max. torque My 7.05 Nm Ax with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Max with theoretical service life of 100 km (from a guide perspective only) Max radial force on actuator shaft 340 N Max. feed force Fx 120 N Guide value for payload, horizontal 6 kg Feed constant 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 212 g Moving mass at 0 mm stroke 212 g Basic weight with 0 mm stroke 1238 g Additional moving mass per 10 mm stroke 1238 g Additional weight per 10 mm stroke 6 3 g Number of digital logic cityuts 24 V DC Number of digital logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input In tit (move in) 1 bit (move in) 1 bit (move in) 1 bit (move in) 1 bit (guite error) 1 bit (guite mov) 1 bit (guite mov) 1 bit (guite mov) 1 bit (guite mov) 1 bit (state inviewedite) 1 bit (state inviewedite) 1 bit (state inviewedite) 1 bit (state move) 1 bit (state inviewedite) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state inviewedite) 1 bit (state move)	Fy with theoretical service life of 100 km (from a guide perspective only)	3240 N
Max. torque My 7.05 Nm Max. torque Mz 7.05 Nm Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life only low	Fz with theoretical service life of 100 km (from a guide perspective only)	3240 N
Max torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Max radial force on actuator shaft 340 N Max. feed force Fx 120 N Guide value for payload, horizontal 6 kg Guide value for payload, vertical 6 kg Feed constant 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 1338 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move onl) 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state in) 1 bit (state onl) 2 bit position 2 bit speed 10-Link®, data memory required	Max. torque Mx	8.14 Nm
Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx. radial force on actuator shaft 340 N Max. radial force on actuator shaft 340 N Max. feed force Fx 120 N Guide value for payload, horizontal Guide value for payload, vertical 6 kg Feed constant 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 212 g Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 1238 g Additional weight logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (state enteried) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state out) 10-Link®, service data contents IN 20 Link®, service data contents IN 21 bit position 22 bit force 23 bit position 23 bit speed 10-Link®, data memory required 0.5 KB	Max. torque My	7.05 Nm
My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Max. radial force on actuator shaft 340 N Max. feed force Fx 120 N Guide value for payload, horizontal 6 kg Guide value for payload, vertical 7 kg feed constant 8 howing mass at 0 mm stroke 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 212 g Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 363 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 4 V Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (state device) 1 bit (state inove) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit speed IO-Link®, data memory required 0.5 KB	Max. torque Mz	7.05 Nm
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only) Max. radial force on actuator shaft Max. feed force Fx Guide value for payload, horizontal Guide value for payload, vertical Feed constant 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 1212 g Additional moving mass per 10 mm stroke 1552 g Basic weight with 0 mm stroke 463 g Number of digital logic outputs 24 V DC Number of digital logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move in) 1 bit (move in) 1 bit (move intermediate) 10-Link®, process data contents IN 10-Link®, service data contents IN 22 bit force 23 bit position 32 bit speed 10-Link®, data memory required 0.5 KB		17 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical Feed constant Reference service life Sooo km Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 63 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move in) 1 bit (state move) 1 bit (state move) 1 bit (state in) 1 bit (state in) 1 bit (state move) 1 bit (state out) 10-Link®, service data contents IN 32 bit speed 10-Link®, data memory required 0.5 KB		17 Nm
Guide value for payload, horizontal Guide value for payload, vertical Feed constant 10 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 212 g Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 1238 g Additional weight per 10 mm stroke 24 V Number of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (move intermediate) 10-Link®, process data content IN 32 bit (State Intermediate) 1 bit (State move) 1 bit (State move) 1 bit (State out) 10-Link®, service data contents IN 32 bit force 32 bit position 33 bit speed 10-Link®, data memory required 0.5 KB	Max. radial force on actuator shaft	340 N
Guide value for payload, vertical Feed constant Reference service life 5000 km Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 63 g Number of digital logic outputs 24 V DC Number of digital logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (quit error) 1 bit (state device) 1 bit (state innove) 1 bit (state innove) 1 bit (state innove) 1 bit (state out) 1 lot-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed 10-Link®, data memory required 0.5 KB	Max. feed force Fx	120 N
Feed constant Reference service life 5000 km Moving mass at 0 mm stroke 212 g Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 63 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quite error) 1 bit (move intermediate) 10-Link®, process data content IN 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state out) 10-Link®, service data contents IN 32 bit force 32 bit speed 10-Link®, data memory required 0.5 KB	Guide value for payload, horizontal	6 kg
Reference service life 5000 km Moving mass at 0 mm stroke 212 g Additional moving mass per 10 mm stroke 30 g Product weight 1552 g Basic weight with 0 mm stroke 1238 g Additional weight per 10 mm stroke 63 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state out) IO-Link®, service data contents IN 32 bit speed IO-Link®, data memory required 0.5 KB	Guide value for payload, vertical	6 kg
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Case Configurable Not galvanically isolated Not galvanically isolated Ibit (move in) 1 bit (move in) 1 bit (move in) 1 bit (state device) 1 bit (state device) 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Feed constant	10 mm/U
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Product weight	Moving mass at 0 mm stroke	212 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Work range of logic input Characteristics of logic input Not galvanically isolated IO-Link®, process data content OUT Ibit (move in) 1 bit (move out) 1 bit (move out) 1 bit (move inermediate) IO-Link®, process data content IN Ibit (state device) 1 bit (state device) 1 bit (state move) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Additional moving mass per 10 mm stroke	30 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Product weight	1552 g
Number of digital logic outputs 24 V DC Number of digital logic inputs Work range of logic input Characteristics of logic input Characteristics of logic input IO-Link®, process data content OUT I bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN I bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Basic weight with 0 mm stroke	1238 g
Number of digital logic inputs 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Additional weight per 10 mm stroke	63 g
Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state Intermediate) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Number of digital logic outputs 24 V DC	2
Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (State Intermediate) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	Number of digital logic inputs	2
Not galvanically isolated IO-Link®, process data content OUT 1 bit (move out) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (State Intermediate) 1 bit (state move) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	Work range of logic input	24 V
1 bit (move out) 1 bit (quit error) 1 bit (move intermediate) 10-Link®, process data content IN 1 bit (state device) 1 bit (State Intermediate) 1 bit (state move) 1 bit (state in) 1 bit (state out) 10-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed 10-Link®, data memory required 0.5 KB	Characteristics of logic input	
1 bit (State Intermediate) 1 bit (state move) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	IO-Link®, process data content OUT	1 bit (move out) 1 bit (quit error)
32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	IO-Link®, process data content IN	1 bit (State Intermediate) 1 bit (state move) 1 bit (state in)
·	IO-Link®, service data contents IN	32 bit position
Input switching logic PNP (positive switching)	IO-Link®, data memory required	0.5 KB
	Input switching logic	PNP (positive switching)

Feature	Value
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Type of mounting	With internal thread With centering sleeve With accessories With cylindrical pin
Note on materials	RoHS-compliant
Slide carriage material	Roller bearing steel
Guide rail material	Roller bearing steel
Spindle material	Roller bearing steel