Your configuration

Your configuration code is

001-M42-2120-2120-00-A

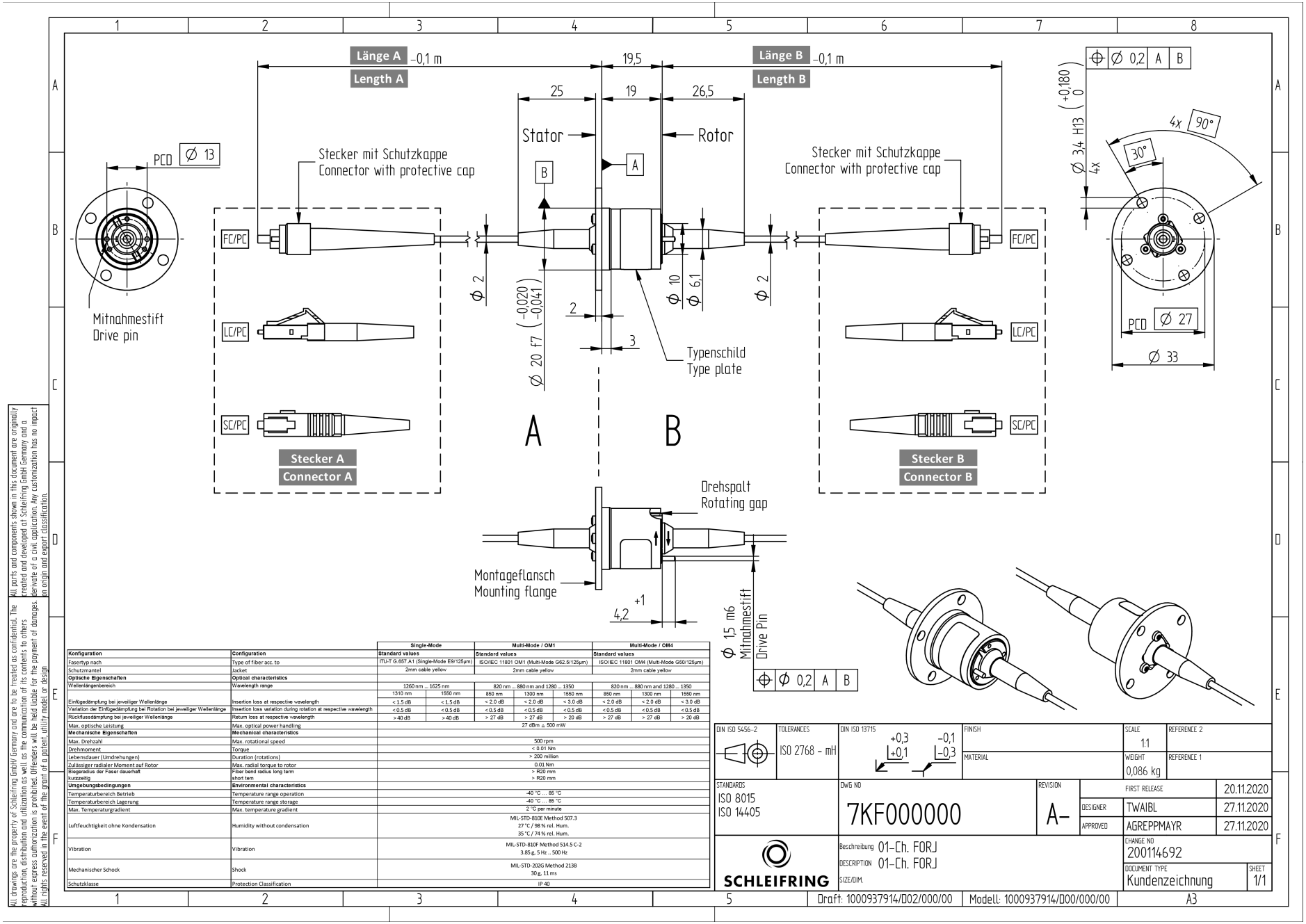
The transmission of the configuration code is an important piece of information for identifying your desired variant both in the quotation phase and in the order phase.

Technical data

Description		
Fiber type	ISO/IEC 11801 OM4 (Multi-Mode G50/125µm)	
Wavelength range	820 nm to 880 nm and 1280 nm to 1350 nm	
max. Insertion loss [dB]	850 nm / 1300 nm	1550 nm
	< 2,0 dB	< 3,0 dB
max. Variation of insertion loss with rotation [dB]	< 0,5 dB	< 0,5 dB
min. Return loss [dB]	> 27 dB	> 20 dB
Cable length [m]	0,5 m to 2,0 m	
max. rpm	500 rpm	
Protection class according to IEC 60529	IP 40	
Operating temperature	-40 °C to 85 °C	
Lifetime [m rev]	200	

Code	Name	Description
001	1-channel	Number of transmission paths/Fiber optic cables
M42	Multi Mode (OM4)	ISO/IEC 11801 Multi Mode OM4 Bare Fiber in PU tube with aramid tension member, yellow, Ø2 mm
Selected stator components		
21	LC/PC connector	Serie 106024
20	2 meter	Lengt of optical fiber

Drawing



Konfiguration	Configuration	Single-Mode		Multi-Mode / OM1			Multi-Mode / OM4		
		Standard values		Standard values			Standard values		
Fasertyp nach	Type of fiber acc. to	ITU-T G.657.A1 (Single-Mode E9/125µm)		ISO/IEC 11801 OM1 (Multi-Mode G62.5/125µm)			ISO/IEC 11801 OM4 (Multi-Mode G50/125µm)		
Schutzmantel	Jacket	2mm cable yellow		2mm cable yellow			2mm cable yellow		
Optische Eigenschaften	**Optical characteristics**								
Wellenlängenbereich	Wavelength range	1260 nm ... 1625 nm		820 nm ... 880 nm and 1280 ... 1350			820 nm ... 880 nm and 1280 ... 1350		
		1310 nm	1550 nm	850 nm	1300 nm	1550 nm	850 nm	1300 nm	1550 nm
Einfügedämpfung bei jeweiliger Wellenlänge	Insertion loss at respective wavelength	< 1.5 dB	< 1.5 dB	< 2.0 dB	< 2.0 dB	< 3.0 dB	< 2.0 dB	< 2.0 dB	< 3.0 dB
Variation der Einfügedämpfung bei Rotation bei jeweiliger Wellenlänge	Insertion loss variation during rotation at respective wavelength	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB
Rückflussdämpfung bei jeweiliger Wellenlänge	Return loss at respective wavelength	> 40 dB	> 40 dB	> 27 dB	> 27 dB	> 20 dB	> 27 dB	> 27 dB	> 20 dB
Max. optische Leistung	Max. optical power handling	27 dBm ≙ 500 mW							
Mechanische Eigenschaften	**Mechanical characteristics**								
Max. Drehzahl	Max. rotational speed	500 rpm							
Drehmoment	Torque	< 0.01 Nm							
Lebensdauer (Umdrehungen)	Duration (rotations)	> 200 million							
Zulässiger radialer Moment auf Rotor	Max. radial torque to rotor	0.01 Nm							
Biegeradius der Faser dauerhaft kurzzeitig	Fiber bend radius long term short tem	> R20 mm > R20 mm							
Umgebungsbedingungen	**Environmental characteristics**								
Temperaturbereich Betrieb	Temperature range operation	-40 °C ... 85 °C							
Temperaturbereich Lagerung	Temperature range storage	-40 °C ... 85 °C							
Max. Temperaturgradient	Max. temperature gradient	2 °C per minute							
Luftfeuchtigkeit ohne Kondensation	Humidity without condensation	MIL-STD-810E Method 507.3 27 °C / 98 % rel. Hum. 35 °C / 74 % rel. Hum.							
Vibration	Vibration	MIL-STD-810F Method 514.5 C-2 3.85 g, 5 Hz .. 500 Hz							
Mechanischer Schock	Shock	MIL-STD-202G Method 213B 30 g, 11 ms							
Schutzklasse	Protection Classification	IP 40							

DIN ISO 5456-2 | TOLERANCES: ISO 2768 - mH | DIN ISO 13715: +0,3 +0,1 / –0,1 –0,3 | FINISH | MATERIAL | SCALE: 1:1 | WEIGHT: 0,086 kg | REFERENCE 2 | REFERENCE 1

STANDARDS: ISO 8015, ISO 14405

DWG NO: 7KF000000

REVISION: A–

FIRST RELEASE		20.11.2020
DESIGNER	TWAIBL	27.11.2020
APPROVED	AGREPPMAYR	27.11.2020

SCHLEIFRING

Beschreibung 01-Ch. FORJ
DESCRIPTION 01-Ch. FORJ
SIZE/DIM.

CHANGE NO: 200114692

DOCUMENT TYPE: Kundenzeichnung | SHEET: 1/1

Draft: 1000937914/D02/000/00 | Modell: 1000937914/D00/000/00 | A3