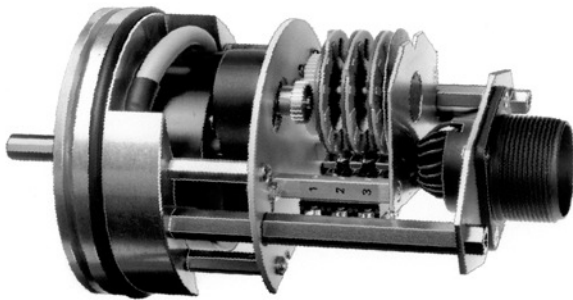


Serie FEL 90



- | | |
|---|-------------------------|
| • Impulse / Pulses | 100...5000 |
| • Schnittstelle / Interface | Push pull / Line driver |
| • Programmkanäle (einstellbar)
Program channel (free setting) | 2...4 |
| • Mikroschalter
Snap action switches | 4A 250V AC / 1A 60V DC |
| • Eingangsübersetzungen
Input ratios | 1:1...1000:1 |
| • Schutzart / Protection | IP 64 |

Technical data

Verstellbare Doppelnockenscheibe

Programmiermöglichkeiten
 Anzahl Impulse pro Umdrehung
 mit Nockenvertiefung 4...180° $\cong$ 1...50 %
 mit Nockenerhöhung 4...356° $\cong$ 1...99 %

Adjustable double cam
 Programming possibilities
 Number of pulses per revolution
 with cam profile valley 4...180° $\cong$ 1...50 %
 with cam profile peak 4...356° $\cong$ 1...99 %

NK4201.180°

1
 COM ⁽¹⁾ NC ⁽²⁾
 COM ⁽¹⁾ NO ⁽³⁾

Mikroschalter

Schaltleistung
 Kontaktmaterial
 Übergangswiderstand

Snap action switch
 Switching power
 Contact material
 Contact resistance

KS25B4

4A 250V AC / 1A 60V DC
 Ag 999
 < 25mΩ

Anzeigeskala

Mikroschalter
 Kontaktmaterial
 Übergangswiderstand

Indicator scale

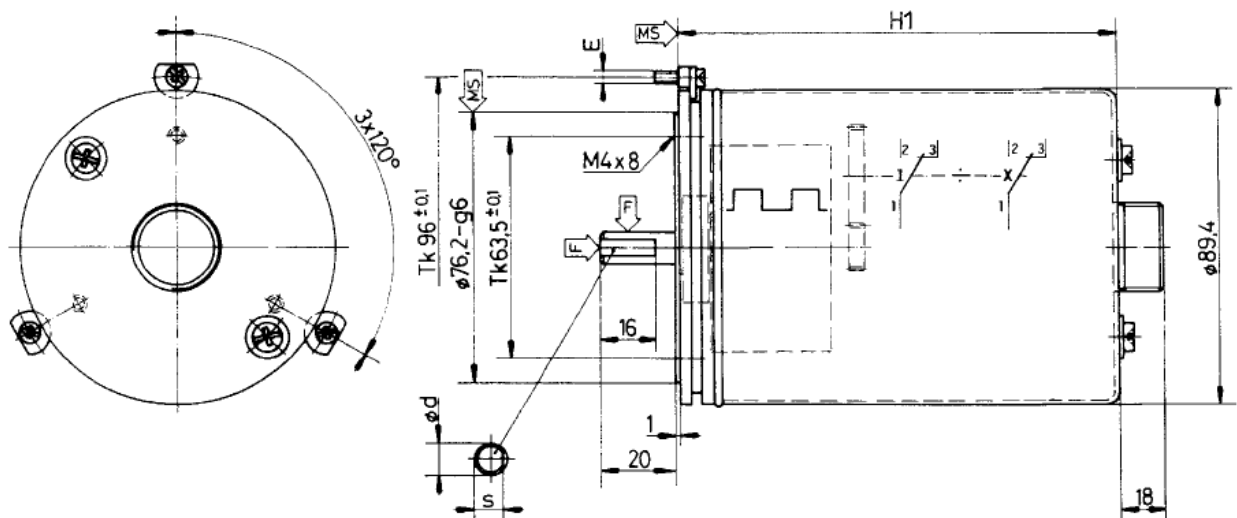
S360 (0°...360°)

Snap action switch
 Contact material
 Contact resistance

KS26B4 (Option)
 Au 4...6 μm
 < 10mΩ

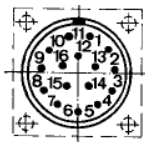
Outline drawing

ød = 9-h8 s = 8,5 E = M3 (4-40 UNC) F = $\Rightarrow$ 40 N ∇ 80 N MS = Montagefläche / Mounting surface

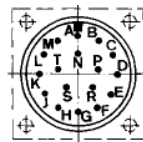


Serie FEL 90

Electrical connection



SFP16 (16 Pin) DIN



MS 3102 A20-29P (17 Pin) MIL

Flanschdose männlich (Ansicht auf Steckerseite)
Connector male (View from face side)

Drahtfarbe Wire colour	Encoder Encoder	Funktion Function	Pin-Nr.	Pin-Nr.	Bemerkung Remarks
Brown		+ Vcc	1	A	
White	Ground	0 V	2	B	
Green	Channel	A	3	C	
Grey		B	4	D	
Blue		M	5	E	
Yellow	Channel	A'	6	F	
Pink		B'	7	G	
Red		M'	8	H	
Shield		-	-	-	unbenutzt / unused

Drahtfarbe Wire colour	Schalter Switches	Funktion Function	Pin-Nr.	Pin-Nr.
White	1	COM (1) NC (2)	9	J
Brown		NO (3)	10	K
Green	2	COM NC	11	L
Yellow		NO	12	M
Grey	3	COM NC	13	N
Pink		NO	14	P
Blue	4	COM NC	15	R
Red		NO	16	S

Anschlüsse mit Stecker / Connection with connector

Signalfarben nach (Kabelquerschnitt für Schalter) / Cable designation at (Cable section for switches)

COM-NO (2,8 x 0,5 mm)

DIN 47100 (0.34 mm² / AWG 22)

Zubehör / Accessories

Befestigungsbride / Hold down clamp

Programmierschlüssel / Program key

3 x BMF (M3x12 mm)

PSN

Option

Gegenstecker gerade (weiblich) / Female cable connector straight plug

Gegenstecker gerade (weiblich) / Female cable connector straight plug

Gegenstecker 90° (weiblich) / Female right angle connector 90°

SGS16.PG9 (16 Pin) DIN

MS3106A20-29S (17 Pin) MIL

MS3108B20-29S (17 Pin) MIL

Technische Daten und Zubehör / Technical data and accessories

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Serie FEL 90

Order key

FEL90 2 U1 1 1 1 1

Dimension: Ø 3.50 inch
Input Shaft to encoder (1:1)

Dimension (mm) / Number of switches:

- | | |
|--|--|
| 120 mm --> Dimension | |
| 2 = 2 Switches (KS25B4 or KS26B4 against surcharge CHF 2.50/piece) | |
| 2 Program channels free setting (NK4201.180°) | |
| Indicator scale S360 (0° ... 360°) | |
| 130 mm --> Dimension | |
| 3 = 3 Switches (KS25B4 or KS26B4 against surcharge CHF 2.50/piece) | |
| 3 Program channels free setting (NK4201.180°) | |
| Indicator scale S360 (0° ... 360°) | |
| 138 mm --> Dimension | |
| 4 = 4 Switches (KS25B4 or KS26B4 against surcharge CHF 2.50/piece) | |
| 4 Program channels free setting (NK4201.180°) | |
| Indicator scale S360 (0° ... 360°) | |

Input ratios (Shaft to switches): --> U = one stage; M = more stage

- | | |
|-------------|--------------|
| U1 = 1:1 | M1 = 12,5:1 |
| U2 = 1,25:1 | M2 = 17,5:1 |
| U3 = 1,66:1 | M3 = 20,83:1 |
| U4 = 2:1 | M4 = 25:1 |
| U5 = 2,5:1 | M5 = 37,5:1 |
| U6 = 3:1 | M6 = 50:1 |
| U7 = 3,5:1 | M7 = 75:1 |
| U8 = 3,75:1 | M8 = 125:1 |
| U9 = 4:1 | M9 = 250:1 |
| U10 = 4,5:1 | M10 = 500:1 |
| U11 = 5:1 | M11 = 750:1 |
| | M12 = 1000:1 |

Cable outlet:

- 1 = axial (H1) R

Male receptacle:

- 1 = SD12 (12 Pin) DIN
2 = SD16 (16 Pin) DIN
3 = MS3102 A18-1P (10Pin) MIL
4 = MS3102 A20-27P (14Pin) MIL
5 = MS3102 A 20-29P (17Pin) MIL

Encoder:

- 1 = <= 2500
2 = > 2500

Shaft:

- 0 = -
1 = 9H7
2 = 9.52

Accessoires: Hold down clamp 3 x BMF (M3 x 12 mm)
Program key PSN

Encoderselection under EN158!!