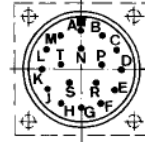
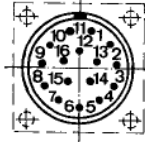


Serie FRL 90Z

Electrical connection



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

SFP16 (16 Pin) DIN

MS 3102 A20-29P (17 Pin) MIL

Drahtfarbe Wire colour	Schalter Switches	Anschluss Function	Pin-Nr.	Pin-Nr.	
White	1	COM (1)	1	A	
Brown		NC (2)	2	B	* Zwangsöffner / Direct positive opening
-		NO (4)	3	C	Option (S845.V.1020)
Green	2	COM	4	D	
Yellow		NC	5	E	*
-		NO	6	F	
Grey	3	COM	7	G	
Orange		NC	8	H	*
-		NO	9	J	
Blue	4	COM	10	K	
Red		NC	11	L	*
-		NO	12	M	
Black	5	COM	13	N	
Purple		NC	14	P	*
-		NO	15	R	

Mikroschalter, Zwangsöffner / Snap action switch, direct positive opening
 Kontaktmaterial / Contact material

S845.V.20 (Standard)
 Ag 999

Anschlüsse Löt- und Steckanschluss / Terminals Solder and plug socket connection
 Signalfarben nach / Cable designation at
 Kabelquerschnitt für Schalter / Cable section for switches

6,3 x 0,8 mm (.25 x .031 inch)
 DIN 47100
 0.34 mm² / AWG 22

Zubehör / Accessories

Befestigungsbrücke / 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
 MS 3106 A 20-29S (17 Pin) MIL
 MS 3108 B 20-29S (17 Pin) MIL

Serie FRL 90Z

Order key

FRL90 Z 2 U1 1 1 1 1

Dimension: Ø 3.50 inch
Program channel (Controlled operating switches); incl. Programm key (PSN)

Size (mm) / Number of switches:

- | | |
|---|--|
| 2 | = 2 Switches
2 verstellbare Single cam (NK4101.30°)
Indicator scale S360 (0°...360°) |
| 3 | = 3 Switches
3 verstellbare Single cam (NK4101.30°)
Indicator scale S360 (0°...360°) |
| 5 | = 5 Switches
5 verstellbare Single cam (NK4101.30°)
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 |
| 2 | = radial | H | S |

Male receptacle:

- | | |
|---|-------------------------------|
| 0 | = - |
| 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 |

Cable gland:

- | | | |
|---|--|--------|
| 0 | = - | |
| 1 | = Cable gland Stick range Ø 3 ... 6.5 mm | PG7 |
| 2 | = Cable gland Stick range Ø 4 ... 8 mm | PG9 |
| 3 | = Cable gland Stick range Ø 5 ... 10 mm | PG11 |
| 4 | = Cable gland Stick range Ø 6 ... 12 mm | PG13,5 |
| 5 | = Cable gland Stick range Ø 8 ... 15 mm | PG16 |

Direct positive opening switch:

- | | |
|---|----------------------------|
| 1 | = S845V1020 (Au; Gold) |
| 2 | = S845V20 (Ag 999; Silver) |

Comment: The overall lengths of the FRL90Z can be shortened with the male receptacle SD12 and SD16 for 32mm.
Accessoires: Hold down clamp 3 x BMF (M3 x 12 mm)