



Key features

Design

- With the CDC (Clean Design Compact) cylinder series, the ADN modular system has been expanded to include an easy to clean compact cylinder variant
- It is based on ISO 21287 for compact cylinders and, like the compact cylinder ADN, features short strokes and a compact design
- The compact cylinder CDC is designed as a double-acting pneumatic cylinder with piston, piston rod and profile barrel

Easy to clean

- Clean Design means smooth surfaces without slots and edges, which means fewer places where dirt can collect
- For hygiene reasons, the threads on the cylinder caps should be sealed with suitable blanking screws
- Resistant to conventional cleaning agents
- Increased corrosion protection

Easy to assemble

- Comprehensive range of mounting accessories for just about every type of installation
- Contactless position sensing via proximity sensors

Versatile

• The variants can be configured according to individual needs thanks to the modular product system

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• Greater flexibility thanks to the wide range of variants

Variants

- CDC-...
- Ø 20, 25 mm
- Without position sensing





CDC-...-A...-R

- Ø 32 ... 80 mm



CDC-...-A-R



- Note

A combination of integrated and external position sensing is possible.

Mounting options With through screws

Direct mounting





Size

Space savings of up to 50% compared with cylinders to standard ISO 15552



Compact cylinders CDC, ISO 21287, Clean Design Peripherals overview



Mou	nting attachments and accessories		
		Brief description	→ Page/Internet
1	Foot mounting	For bearing and end cap	20
	HNAR3		
2	Flange mounting	For bearing or end cap	20
	CRFNG		
3	Trunnion flange	For bearing or end cap in combination with trunnion supports CRLNZG	21
	CRZNG		
4	Trunnion supports	For trunnion flange CRZNG	21
	CRLNZG		
5	Swivel flange	For end cap	22
	SNCBR3		
6	Clevis foot mounting	For swivel flange SNCBR3	22
	CRLNG		
7	Swivel flange	For end cap	23
	SNCLR3		
8	Clevis foot mounting	For swivel flange SNCLR3	23
	CRLBN		
9	Rod clevis	Permits a swivelling movement of the cylinder in one plane	28
	CRSG		
10	Rod eye	With spherical bearing	28
	CRSGS		
11	Proximity sensor	For attachment to the sensor mounting rail	24
	SMT-C1		
12	Cable with socket	 For electrical signal transmission and power supply 	26
	SIM-KCDN	 With food industry approval 	
13	One-way flow control valve	For regulating speed	27
	CRGRLA		
14	Push-in fittings	For connecting compressed air tubing with standard external diameters	27
	QS-F/QSL-F/CRQS/CRQSL		
15	Blanking screws	For covering unused mounting threads	28
	DAMD-P		

	CDC	- 32	- 50	– A	- P	– AIB	– SME	- R	– K2
Туре									
Double-a	acting								
CDC	Compact cylinder, Clean Design								
	-								
Piston Ø	ð [mm]								
Chroke I		I							
Sticke									
Piston re	od thread								
А	Male thread				1				
	Female thread								
C 11		I							
Cushion	ing								
Р	Flexible cushioning rings/pads at both ends								
Position	sensing								
А	For proximity sensor								
AIB	At both ends, integrated								
AIV	Front, integrated								
AIH	Rear, integrated								
Drovimit									
CME	Contacting (magnetic read)								
SMT	Contacting (inaginetic reed)								
JIII	contactiess (magneto-resistive)								
Sensor r	nounting rail								
R	For external position sensing								•
	(only with \varnothing 32 80 mm)								
		1							
Variant									
52	Inrougn piston rod								
K2	Diston rod with special thread								
K8	Extended niston rod								
S6	Heat-resistant seals for temperatures up to 120 °C								



CDC-...-A-P-R

General technical data	eneral technical data									
Piston \varnothing		20	25	32	40	50	63	80		
Pneumatic connection		M5	M5	G1⁄8	G1⁄8	G1⁄8	G1⁄8	G1⁄8		
Piston rod thread		M8	M8	M10x1.25	M10x1.25	M12x1.25	M12x1.25	M16x1.5		
Design		Piston	-	·	·					
		Piston rod								
		Cylinder barrel								
Cushioning		Flexible cushioning rings/pads at both ends								
Position sensing	А	For proximity sensor								
	AIB	At both ends, built-in								
	AIV	Front, built-in								
	AIH	Rear, built-in								
Type of mounting		Via through-hole								
		With female thread								
		Via accessories								
Mounting position		Any								

Operating and envi	perating and environmental conditions									
Piston \varnothing			20	25	32	40	50	63	80	
Operating medium			Filtered compres	iltered compressed air, lubricated or unlubricated						
Operating [bar]			0.8 10		0.6 10					
pressure	S2	[bar]	1.2 10		1 10			0.8 10		
	S6	[bar]	1 10	0.6 10	•			<u>.</u>		
Ambient [°C]		[°C]	-20 +80	-20 +80						
temperature ¹⁾ S6 [°C]		0 +120								
Corrosion resistance	e class CR	C ²⁾	3							

 Note operating range of proximity sensors
 Corrosion resistance class 3 to Festo standard 940 070
 Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for , the surface

Forces [N] and impact energy [J]	orces [N] and impact energy [J]							
Piston \varnothing		20	25	32	40	50	63	80
Theoretical force at 6 bar,	188	295	483	754	1,178	1,870	3,016	
advancing	S2	141	247	415	686	1,057	1,750	2,827
Theoretical force at 6 bar,		141	247	415	686	1,057	1,750	2,827
retracting								
Max. impact energy		0.2	0.3	0.4	0.7	1	1.3	1.8
at the end positions S6		0.1	0.15	0.2	0.35	0.5	0.65	0.9

Permissible impact velocity:

$$v_{perm.} = \sqrt{\frac{2 \text{ x E}_{perm.}}{m_{dead} + m_{load}}}$$

Permissible impact velocity v_{perm}. E_{perm}. Max. impact energy m_{dead} Moving load (drive) m_{load} Moving work load

- 🏺 - Note

These specifications represent the maximum values which can be reached. Note the maximum permitted impact energy.

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Maximum permissible load:

 $m_{load} = \frac{2 \text{ x E}_{perm.}}{v^2} - m_{dead}$

Max. lateral force Fq as a function of projection X



Ø 20

----- Ø 25

-- Ø 32/40

----- Ø 50/63

----- Ø 80

Weights [g]							
Piston \varnothing	20	25	32	40	50	63	80
Basic version							
Product weight with 0 mm stroke	133	170	277	377	567	790	1,475
Additional weight per 10 mm stroke	20	23	31	35	52	59	84
Moving load with 0 mm stroke	24	33	53	82	128	177	367
Additional load per 10 mm stroke	6	6	9	9	16	16	25
S2 – Through piston rod							
Product weight with 0 mm stroke	150	183	296	386	600	827	1,507
Additional weight per 10 mm stroke	26	29	40	44	67	74	109
Moving load with 0 mm stroke	34	40	64	81	144	195	367
Additional load per 10 mm stroke	12	12	18	18	32	32	49

Materials



Comp	pact cylinder	Basic version	S6
1	End cap	Anodised aluminium	
2	Cylinder barrel	Anodised aluminium	
3	Piston rod	High-alloy steel	
4	Flange screws	Corrosion-resistant steel	
-	Seals	Polyurethane, nitrile rubber	Fluorocarbon rubber
-	Note on materials	Free of copper and PTFE	





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Compact cylinders CDC, ISO 21287, Clean Design Technical data

Ø	BG	D5	E	EE	G	J1	J3	L2	L3	L4
[mm]		F9				±0.1	±0.1			
20	10 5		36.8	ME	12			37		
25	19.5	0	41.8	C 101	12	_	_	39		
32	26	2	49.8			5.8	7	44	6.6	5
40	20		57.8		15	8		45	4.4	J
50		12	69.7	G1⁄8	15	8.5	0	45		
63	27	12	81.3	1		12	0	49		
80		-	100.4		16.5	15		54	8	-
Ø	L5	L6	L7	MM	PL	RT	TG	ZJ	=0	1
				Ø						
[mm]		±2		h8	±0.1			+1	h1	3
20	_	_	7	10	6	MS	22	42.7		,
25		_	/	10	0	015	26	44.7		
32		35	0.7	10		MC	32.5	50.2	1	0
40	10	39	0.7	12		MO	38	51.2		0
50	10	45	10.2	16	8.2	Mo	46.5	53.2	1	2
63		50	10.5	10		1010	56.5	57.2	1	ر ر
80	11.5	60	11.9	20	1	M10	72	63	1	7

-Note -

The following maximum stroke

lengths apply in combination with a

swivel mounting on the end cap:

Ø	20	25	32	40	50	63	80
[mm]							
Max. stroke length	5	0		1(00		150

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++ = plus 2 stroke lengths

K2 – Extended male piston rod thread



+ = plus stroke length

Ø	A1	AF	AM	KF	KK	T4	WH	ZJ	ZM
[mm]		min.	-0.5				+1	+1	
20		1.6	16	M6	MQ	26	57	42.7	49.8
25		14	10	mo	Mo	2.0	5.7	44.7	51.8
32	1 20	16	19	Mo	M10v1 25	2.2	6.2	50.2	57.8
40	1 20	10		INIO	MI0X1.23	ر.ر	0.2	51.2	58.9
50			22	M10	M1 2v1 25	4.7	8.2	53.2	63.1
63		20	22	W10	INT 2X1.2 J	4.7	0.2	57.2	66.9
80	1 30		28	M12	M16x1.5	6.1	9	63	73.5

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Compact cylinders CDC, ISO 21287, Clean Design Technical data



K8 – Extended piston rod



Ø	AF	A2	AM	K1	K2	T4	WH	ZJ
[mm]	min.		-0.5				+1	+1
20	14	1 300	16	M10 M10v1 25	MS	2.6	5 7	42.7
25	14	1 900	10	m10, m10,1.25	ms	2.0	5.7	44.7
32	16		10	M10 M12	MG	33	6.7	50.2
40	10	1 400	19	W10, W12	mo	5.5	0.2	51.2
50		1 400	22	M12 M12	M8	4.7	0 1	53.2
63	20		22	WI2, WI2	MO	4.7	0.2	57.2
80		1 500	28	M16, M20	M10	6.1	9	63

Proximity sensor magnetic reed

(order code SME)

.

Material: Housing: Polyamide, epoxy resin, nickel-plated brass Plug contacts: Gold-plated brass Free of copper and PTFE

- Note

The proximity sensor can only be ordered in combination with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.

1 min

Design	
Constructional design	Integrated
Switching element function	N/O contact
Switch output	Contacting, bipolar
Switching status display	Yellow LED

Technical data – N/O contact				
Measuring principle		Magnetic reed		
Electrical connection		Plug, M8x1, 3-pin		
Operating voltage range	[V DC]	12 30		
	[V AC]	12 30		
Max. output current	[mA]	500		
Max. switching capacity	[W]	10		
Voltage drop	[V]	<2		
Residual current	[mA]	0		
Switch-on time	[ms]	0.5		
Switch-off time	[ms]	0.5		
Reproducibility of switching point	[mm]	±0.1		
Protection against short circuit		No		
Protection against overloading		No		
Protection against polarity reversal		No		
Product weight	[g]	2.7		
Protection class		IP65, IP67		
		IP69K only in combination with SIM-KCDN		

Operating and environmental conditions					
Ambient temperature [°C]	-20 +60				
Corrosion resistance class CRC ¹⁾	3				
CE mark (see declaration of conformity) In accordance with EU EMC directive					

1) Corrosion resistance class 3 to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

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Compact cylinders CDC, ISO 21287, Clean Design

Proximity sensor magneto-resistive

(order code SMT)

Material: Housing: Polyamide, epoxy resin, nickel-plated brass Plug contacts: Gold-plated brass Free of copper and PTFE

-- Note

The proximity sensor can only be ordered in combination with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.



Jesign					
Constructional design	Integrated				
Switching element function	N/O contact				
Switch output	Contacting, bipolar				
Switching status display	Yellow LED				

Technical data – N/O contact				
Measuring principle		Magneto-resistive		
Electrical connection		Plug, M8x1, 3-pin		
Operating voltage range	[V DC]	5 30		
Max. output current	[mA]	100		
Max. switching capacity	[W]	3		
Voltage drop	[V]	< 2		
Residual current	[µA]	10		
Switch-on time	[ms]	0.5		
Switch-off time	[ms]	0.5		
Reproducibility of switching point	[mm]	±0.1		
Protection against short circuit		Yes		
Protection against overloading		Yes		
Protection against polarity reversal		Yes		
Product weight [g]		2.7		
Protection class		IP65, IP67		
		IP69K only in combination with SIM-KCDN		

Operating and environmental conditions					
Ambient temperature	[°C]	-20 +60			
Corrosion resistance class CRC ¹⁾		3			
CE mark (see declaration of conformity)		In accordance with EU EMC directive			

1) Corrosion resistance class 3 to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Proximity sensor,

magnetic reed (order code SME)



-- Note

The proximity sensor can only be ordered in conjunction with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.



Technical data							
General information							
Design		Integrated					
Based on standard		DIN EN 60947-5-2					
CE mark (see declaration of conform	ity)	To EU EMC Directive					
Note on materials		Free of copper and PTFE					
Input signal/measuring element							
Measuring principle		Magnetic reed					
Ambient temperature	[°C]	-20 +60					
Switching output							
Switching output		Contacting, bipolar					
Switching element function		N/O contact					
Reproducibility of switching point	[mm]	±0.1					
Hysteresis	[mm]	1 4, depending on the cylinder used					
Switch-on time	[ms]	0.5					
Switch-off time	[ms]	0.5					
Max. output current	[mA]	500					
Max. switching capacity AC	[W]	10 VA					
Max. switching capacity DC	[W]	10 W					
Inductive protective circuit		Adapted to MZ coil with LED					
Residual current	[mA]	0					
Output, further data		1					
Protection against short circuit		No					
Protection against overloading		No					
Electronic components		1					
Operating voltage range	[V AC]	12 30					
	[V DC]	12 30					
Protection against polarity reversal		No					
Electromechanical components							
Electrical connection		Plug, M8x1, 3-pin					
Connection direction		Lateral					
Information on crimp connector mat	erials	Gold-plated brass					



Technical data						
Mechanical components						
Tightening torque	[Nm]	0.3				
Mounting position		Any				
Product weight	[g]	2.7				
Information on housing materials		Polyamide, epoxy resin, nickel-plated brass				
Display/operation						
Switching status display		Yellow LED				
Immissions/emissions						
Degree of protection		IP65, IP67 to IEC 60529				
		IP69K, to DIN 40050 Part 9				
	Only in conjunction with plug socket with cable SIM-KCDN					
Corrosion resistance class CRC ¹⁾		3				

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Proximity sensor,

magneto-resistive





-- Note

The proximity sensor can only be ordered in conjunction with the order code AIB, AIV and AIH (integrated position sensing) in the modular product system.

and the

Technical data						
General information						
Design	Integrated					
Based on standard	DIN EN 60947-5-2					
CE mark (see declaration of conformity)	To EU EMC Directive					
Note on materials	Free of copper and PTFE					
Input signal/measuring element						
Measuring principle	Magneto-resistive					
Ambient temperature [°C]	-20 +60					
Switching output						
Switching output	PNP					
Switching element function	N/O contact					
Reproducibility of switching point [mm]	±0.1					
Hysteresis [mm]	1 4, depending on the cylinder used					
Switch-on time [ms]	0.5					
Switch-off time [ms]	0.5					
Max. output current [mA]	100					
Max. switching capacity DC [W]	3					
Voltage drop [V]	<2					
Inductive protective circuit	Adapted to MZ, MY, ME coils					
Residual current [µA]	< 10					
Output, further data						
Protection against short circuit	Yes					
Protection against overloading	Yes					
Electronic components						
Operating voltage range [V DC]	5 30					
Residual ripple [%]	10					
Protection against polarity reversal	Yes					
Electromechanical components						
Electrical connection	Plug, M8x1, 3-pin					
Connection direction	Lateral					
Information on crimp connector materials	Gold-plated brass					



Technical data						
Mechanical components						
Tightening torque	[Nm]	0.3				
Mounting position		Any				
Product weight	[g]	2.7				
Information on housing materials		Polyamide, epoxy resin, nickel-plated brass				
Display/operation						
Switching status display		Yellow LED				
Immissions/emissions						
Degree of protection		IP65, IP67 to IEC 60529				
		IP69K, to DIN 40050 Part 9				
	Only in conjunction with plug socket with cable SIM-KCDN					
Corrosion resistance class CRC ¹⁾		3				

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Ordering data – Modular products

M Mandatory data → Module No. Function Stroke Cushioning Piston Ø Piston rod thread Position sensing 543 305 CDC 20 Ρ 1 ... 500 А 543 306 25 А I AIB 543 307 32 543 308 40 AIV 543 309 50 AIH 543 310 63 543 311 80 Order example 543 306 CDC 25 225 P Ordering table Size 20 25 32 40 50 63 80 Condi-Code Enter tions code M Module No. 543 308 543 305 543 306 543 307 543 309 543 310 543 311 Function Standard cylinder, double-acting, based on ISO 21287 (Clean Design) CDC CDC Piston Ø [mm] 20 32 40 50 63 80 25 -... 1 ... 400 Stroke [mm] 1 ... 300 1 ... 500 -... Piston rod thread Male thread -A Female thread -1 Cushioning Flexible cushioning rings/pads at both ends -P - P Position sensing Without position sensing For proximity sensor -A At both ends, integrated 2 -AIB Front, integrated 2 -AIV

Rear, integrated

1 Not with exte

Not with extended male thread K2

2 AIB, AIV, AIH Only with proximity sensor SME, SMT

2

-AIH

Transfer order code

- P

18

·O· New

Compact cylinders CDC, ISO 21287, Clean Design Ordering data – Modular products

•	O Options											
	Proximity sensor		Туре	Type of piston rod Male thread extended			Special thread Piston rod extended			· · · · · · · · · · · · · · · · · · ·	Temperature resistance	
	Sensor mounting	Sensor mounting rail										
	SME SMT	R	S2		K2		"…" K5		К8	:	S6	
– Ore	Jering table	-	_ _ 52	25] - 20K2	40	- <u>"M10"K5</u>	-	75K8	– :	S6	Enter
512	c .		20	25	52	40	50	05	00	tions	couc	code
0	Proximity sensor	imity sensor –		-	SME (contacting)			3	-SME			
	<u> </u>	1	-	-	SMT (conta	ctless)	C ()			4	-SMT	
	Sensor mounting ra	all	-	Sensor mounting rail for external position sensing					5	-K		
	Male thread extens	lod	Extended	Infougn piston rou							-52	
		[mm]	1 20	1 20				130			K2	
	Piston rod with	Male thread	M10x1.2	5	M10		M12		M16		-""K5	
	special thread		M10		M12		M16		M20			
	-	Female thread	M5		M6		M8		M10			
	Piston rod extende	d	Extended	piston rod								
		[mm]	1 300		1 400				1 500	6	K8	
	Town on the second state			1 .								

3 SME	Only with position sensing AIB, AIV, AIH	5 R	Must be selected with size 32, 40, 50, 63, 80
	Minimum stroke 15 mm	6 K8	The sum of the stroke length and piston rod extension must not exceed the maximum
4 SMT	Only with position sensing AIB, AIV, AIH		permissible stroke length
	Minimum stroke 10 mm	7 S6	Not with position sensing AIB, AIV, AIH

Transfer order code _ -_

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Foot mounting HNA-...-R3

Material: Steel with protective coating Free of copper, PTFE and silicone





+	=	plus	stroke	lengt

Dimension	is and order	ring data											
For \varnothing	AB	AH	AO	AT	AU	SA	TR	US	XA	CRC ¹⁾	Weight	Part No.	Туре
	Ø												
[mm]	H14	JS14		±0.5	±0.2		±0.2	-0.5			[g]		
20		27	6.25			69	22	34.5	59	3	50	537 254	HNA-20-R3
25	7	29	0.25	4	16	71	26	38.5	61	3	55	537 255	HNA-25-R3
32		33.5	7	4		76	32	46	66	3	70	537 256	HNA-32-R3
40		38	9		18	81	36	54	69	3	90	537 257	HNA-40-R3
50	10	45	Q	5	21	87	45	64	74	3	160	537 258	HNA-50-R3
63		50	0	5	21	91	50	75	78	3	180	537 259	HNA-63-R3
80	12	63	10.5	6	26	106	63	63	89	3	380	537 260	HNA-80-R3

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Flange mounting CRFNG

Material: High-alloy steel Free of copper, PTFE and silicone





Dimensions and ordering data

Dimension												
For Ø	E	FB	MF	R	TF	UF	ZF	CRC ¹⁾	Weight	Part No.	Туре	
		Ø										
[mm]		H13							[g]			
32	45	7	10	32	64	80	54	4	240	161 846	CRFNG-32	
40	54	9	10	36	72	90	55	4	300	161 847	CRFNG-40	
50	65	9	12	45	90	110	57	4	550	161 848	CRFNG-50	
63	75	9	12	50	100	120	61	4	710	161 849	CRFNG-63	
80	93	12	16	63	126	150	70	4	1,680	161 850	CRFNG-80	

1) Corrosion resistance class 4 according to Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

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Accessories

L .

Trunnion flange CRZNG

Material: CRZNG: Electrolytically polished special steel casting Free of copper, PTFE and silicone





+ = p	lus strol	ke length
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Dimension	is and orde	ring data											
For \varnothing	C2	C3	TD	TK	TL	TM	US	XH	XL	CRC ¹⁾	Weight	Part No.	Туре
			Ø										
[mm]			e9										
32	71	86	12	16	12	50	45	2	52	4	150	161 852	CRZNG-32
40	87	105	16	20	16	63	54	4	55	4	260	161 853	CRZNG-40
50	99	117	16	24	16	75	64	4	57	4	430	161 854	CRZNG-50
63	116	136	20	24	20	90	75	4	61	4	640	161 855	CRZNG-63
80	136	156	20	28	20	110	93	5	81	4	1,300	161 856	CRZNG-80

1) Corrosion resistance class 4 according to Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Trunnion supports CRLNZG

Material: High-alloy steel Free of copper, PTFE and silicone





Dimensior	is and ord	ering data											
For \varnothing	CR	FK	FN	FS	H1	HB	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Туре
	Ø	Ø				Ø							
[mm]	D11	±0.1				H13		±0.2			[g]		
32	12	15	30	10.5	15	6.6	18	32	46	4	200	161 874	CRLNZG-32
40,50	16	18	36	12	18	9	21	36	55	4	330	161 875	CRLNZG-40/50
63,80	20	20	40	13	20	11	23	42	65	4	440	161 876	CRLNZG-63/80

1) Corrosion resistance class 4 according to Festo standard 940 070 Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

FESTO

Swivel flange SNCB-...-R3

Material:

Die-cast aluminium with protective coating, high corrosion protection Free of copper, PTFE and silicone





Dimensior	ns and orderin	ıg data									
For \varnothing	CB	EK	FL	L	MR	UB	XC	CRC ¹⁾	Weight	Part No.	Туре
		Ø									
[mm]	H14	e8	±0.2			h14			[g]		
32	26	10	22	13	8.5	45	72	3	100	176 944	SNCB-32-R3
40	28	12	25	16	12	52	76	3	150	176 945	SNCB-40-R3
50	32	12	27	16	12	60	80	3	225	176 946	SNCB-50-R3
63	40	16	32	21	16	70	89	3	365	176 947	SNCB-63-R3
80	50	16	36	22	16	90	99	3	610	176 948	SNCB-80-R3

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Clevis foot CRLNG

Material: High-alloy steel Free of copper, PTFE and silicone





Dimension	ns and ord	lering dat	ta												
For \varnothing	BR	BT	CK	EM	GL	HB	PH	RA	TE	UL	UR	CRC ¹⁾	Weight	Part No.	Туре
			Ø			Ø									
[mm]			D11	-0.4		H13							[g]		
32	10	8	10	25.8	21	6.6	32	18	38	51	31	4	120	161 840	CRLNG-32
40	11	10	12	27.8	24	6.6	36	22	41	54	35	4	160	161 841	CRLNG-40
50	12	12	12	31.8	33	9	45	30	50	65	45	4	280	161 842	CRLNG-50
63	15	12	16	39.8	37	9	50	35	52	67	50	4	375	161 843	CRLNG-63
80	15	14	16	49.8	47	11	63	40	66	86	60	4	580	161 844	CRLNG-80

1) Corrosion resistance class 4 according to Festo standard 940 070 Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

FESTO

Accessories

Swivel flange SNCL-...-R3

Material: SNCL-...-R3: Die-cast aluminium with protective coating Free of copper, PTFE and silicone







Dimension	ns and ordering	data								
For \varnothing	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Туре
	Ø									
[mm]	H9	h12	±0.2					[g]		
20	Q	16	20	1.4	Q	63	3	40	537 796	SNCL-20-R3
25	0	10	20	14	0	65	3	45	537 797	SNCL-25-R3

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Clevis foot CRLBN, stainless steel

Material: High-alloy steel Free of copper, PTFE and silicone





Dimension	mensions and ordering data												
For \varnothing	СМ	EK	FL	GL	HB	LE	MR	RG	UX	CRC ¹⁾	Weight	Part No.	Туре
		Ø											
[mm]											[g]		
20/25	16.1	8	30 +0.4/-0.2	16	6.6	26	10	20	32	4	62	161 863	CRLBN-20/25

1) Corrosion resistance class 4 according to Festo standard 940 070

Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

SMT-C1

PNP BU

Proximity sensor 13 2 3 4 3.5 **≍©** 5.5 Ų m 10 R 8.E Φ 3-4 1 3.5 8,8 1 Э4 Connecting cable Yellow LED 3 Theoretical switching point4 Clamping component

Technical data		
General information		
Design		Block-shaped
Based on standard		DIN EN 60947-5-2
Certification		C-Tick
CE mark (see declaration of confo	ormity)	To EU EMC Directive
Note on materials		Free of copper, PTFE and halogen
Input signal/measuring element		
Measuring principle		Magneto-inductive
Method of measurement		Absolute
Ambient temperature	[°C]	-20 +70
Switching output		
Switching output		PNP
Switching element function		N/O contact
Hysteresis	[mm]	≤ 2.0
Switch-on time	[ms]	≤ 0.5
Switch-off time	[ms]	≤ 0.5
Max. output current	[mA]	200
Max. switching capacity DC	[W]	6
Voltage drop	[V]	<1.8
Inductive protective circuit		Adapted to MZ, MY, ME coils
Residual current	[mA]	< 0.1
Output, further data		
Protection against short circuit		Pulsed
Protection against overloading		Yes
Electronic components		
Operating voltage range	[V DC]	10 30
Residual ripple	[%]	
Protection against polarity revers	sal	For all electrical connections
Electromechanical components		Calls 2 with
Electrical connection		Lable, 3-Wire
	[m]	
Cable length	fuil	2.5
Coble abooth as low		
Caple type	ariala	LII12T00T
Information on cable sheath mat	erials	Inermoptastic polyolerin elastomer
wire ends		wire end sieeve



Technical data		
Mechanical components		
Type of mounting		Clamped
Tightening torque	[Nm]	1.2
Mounting position		Any
Product weight	[g]	60
Housing colour		Black
Information on housing materials		Polypropylene, high-alloy stainless steel, wrought aluminium alloy,
		thermoplastic polyurethane elastomer
Display/operation		
Switching status display		Yellow LED
Immissions/emissions		
Ambient temperature with flexible	[°C]	-20 +70
cable installation		
Degree of protection		IP65, IP67 to IEC 60529
Corrosion resistance class CRC ¹⁾		3

1) Corrosion resistance class 3 according to Festo standard 940 070 Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Ordering data		
Cable length	Part No.	Туре
[m]		
2.5	540 431	SMT-C1-PS-24V-2,5-OE
5.0	540 432	SMT-C1-PS-24V-5,0-OE

Compact cylinders CDC, ISO 21287, Clean Design Accessories

FESTO

Plug socket with cable SIM-K-GD- ... -CDN Ø 4.5 ±0.1 Ø 8.5 Material: Polyurethane, 28.5 suitable for foodstuffs, resistant to cleaning and disinfecting agents 3**(**) to DIN 11483 Plug socket with cable Ø 4.5 ±0.1 SIM-K-WD- ... -CDN 18.4

Material: Polyurethane, suitable for foodstuffs, resistant to cleaning and disinfecting agents to DIN 11483





Technical data							
			SIM-K2,5-CDN	SIM-K5-CDN			
Electrical connection			Clip-on plug socket, straight or angled, 3-pin				
Operating voltage range AC [V] ≤45							
	DC	[V]	≤70				
Acceptable current load		[A]	2.8				
Cable length		[m]	2.5	5			
Cable composition		[mm ^{2]}	3x 0.25				
Wire ends			Tin-plated				
Degree of protection			IP65/IP67/IP69				

Operating and environmental conditions							
Cable installation		Fixed	Flexible				
Ambient temperature	[°C]	-30 +70	-5 +70				

Ordering data				
Cable length	Part No.	Туре	Part No.	Туре
[m]				
Connection direction	In-line		Lateral	
2.5	525 259	SIM-K-GD-2,5-CDN	525 261	SIM-K-WD-2,5-CDN
5	525 260	SIM-K-GD-5-CDN	525 262	SIM-K-WD-5-CDN



Ordering data	ı – Push-in fittings	;			Technic	al data 🗲 Internet:	quick star
	Connection		Material	Weight [g]	Part No.	Туре	PU ³⁾
	Thread Tubing O.D.						
With external	hex						
	M5	4	Brass, nickel-plated and	6.1	533 844	QS-F-M5-4 ¹⁾	10
		6	chrome-plated	9.3	533 845	QS-F-M5-6 ¹⁾	10
-	G1⁄8	4		8	193 408	QS-F-G1⁄8-41)	10
		6		12	193 409	QS-F-G¹⁄8-6 1)	10
		8		14	193 410	QS-F-G1⁄8-8 ¹⁾	10
		•	L				
	M5	4	Stainless steel	6	162 860	CRQS-M5-4 ¹⁾	1
		6		8.4	162 861	CRQS-M5-6 ¹⁾	1
	R1/8	6		9.9	162 862	CRQS-1/8-6 ²⁾	1
		8		13	162 863	CRQS-1/8-8 ²⁾	1
		•	L				•
With internal	hex						
	M5	4	Brass, nickel-plated and	6	533 924	QS-F-M5-4-I ¹⁾	10
		6	chrome-plated	9	537 014	QS-F-M5-6-I ¹⁾	10
~~	G1⁄8	4		8.6	533 927	QS-F-G¹⁄8-4-I ¹⁾	10
		6		13.4	533 928	QS-F-G¹⁄8-6-I ¹⁾	10
		8		13.1	533 929	QS-F-G1⁄8-8-I ¹⁾	10

With sealing ring
 With PTFE coating
 Packaging unit quantity

Ordering data -	Push-in L-fittin	gs			Technic	al data 🗲 Internet:	quick star
	Connection		Material	Weight [g]	Part No.	Туре	PU ³⁾
	Thread Tubing O.D.						
With external he	2X						
	M5	4	Brass, nickel-plated and	10.1	533 849	QSL-F-M5-4 ¹⁾	10
		6	chrome-plated	14.7	533 850	QSL-F-M5-6 ¹⁾	10
	G1⁄8	4		17.6	193 418	QSL-F-G1/8-4 ¹⁾	10
		6		16	193 419	QSL-F-G1⁄8-6 ¹⁾	10
		8		20	193 420	QSL-F-G1⁄8-81)	10
		·					
	M5	4	Stainless steel	13	162 870	CRQSL-M5-4 ¹⁾	1
O Maria		6		19	162 871	CRQSL-M5-6 ¹⁾	1
	R1/8	6		20	162 872	CRQSL-1/8-6 ²⁾	1
		8		27	162 873	CRQSL-1/8-8 ²⁾	1

With sealing ring
 With PTFE coating
 Packaging unit quantity

Ordering data – Pl	astic tubing, standard O.D.	Technical data 🗲 Internet: tubing
		Туре
	Good resistance to chemicals and hydrolysis	PLN
0	Pneumatic tubing with resistance to high temperatures and chemicals	PFAN
	Approved for use in the food industry and hydrolysis-resistant	PUN-H

Ordering data – One-way flow control valves Technical data → Internet: crgrla								
	Connection	Connection Material We		Weight [g]	Part No.	Туре		
	Thread	For push-in fitting						
(B)	M5	CRQS/CRQSL/CRQST,	Electrolytically polished special	14	161 403	CRGRLA-M5-B		
A C	G1⁄8	Quick Star	steel casting	44	161 404	CRGRLA-1/8-B		

.

Ordering data – Blanking screws, corrosion-resistant										
	For \varnothing	Material	CRC ¹⁾	Weight [g]	Part No. Type	PU ³⁾				
~0 a	20,25	High-alloy steel	3	5.5	543 714 DAMD-P-M5-10-R1 ²⁾	4				
0000	32,40			9	543 715 DAMD-P-M6-12-R1 ²⁾	4				
u de la	50,63			17.5	543 716 DAMD-P-M8-16-R1 ²⁾	4				
	80			30	543 717 DAMD-P-M10-16-R1 ²⁾	4				

Corrosion resistance class 3 according to Festo standard 940 070
 Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

With sealing ring
 Packaging unit quantity

Ordering data – C	orrosion and acid-i	resistant pis	ton rod attachments				Ţ	echnical data → Internet: crsg
Designation	For \varnothing	Part No.	Туре		Designation	For \varnothing	Part No.	Туре
Rod eye CRSGS					Rod clevis CRSG			
	20, 25	195 581	CRSGS-M8		6000	20,25	13 568	CRSG-M8
	32,40	195 582	CRSGS-M10x1,25			32,40	13 569	CRSG-M10x1,25
	50,63	195 583	CRSGS-M12x1,25			50,63	13 570	CRSG-M12x1,25
	80	195 584	CRSGS-M16x1,5			80	13 571	CRSG-M16x1,5