

Limit switch attachments DAPZ

FESTO



Type codes

001	Type	
DAPZ	Limit switch attachment	
002	Specification	
SB	Sensor box	
003	Measuring principle	
I	Inductive	
M	Electrical, micro switch	

004	Operating voltage	
25DC	8 V DC	
30DC	30 V DC	
250AC	250 V AC/DC	
005	Version	
EX	Explosion-proof	
D	Display	
R	Round design	
006	Variant	
AR	Foot height adjustable	

Data sheet

- Actuator interface to Namur VDI/VDE 3845
- Quick and easy assembly and connection
- Integrated solenoid valve control



General technical data			DAPZ-SB-M-250AC-DR-AR	DAPZ-SB-I-30DC-DR-AR	DAPZ-SB-I-25DC-EXDR-AR
Measuring principle			Mechanical, electrical	Inductive	Inductive
Based on standard			EN 60947-5-1	EN 60947-5-2	EN 60947-5-6
			VDI/VDE 3845 (NAMUR)		
Design			Round		
Mounting position			Any		
Short circuit current rating			No	Pulsed	No
Switching element function			Changeover switch	N/O contact	N/C contact
Reverse polarity protection			No	For all electrical connections	No
Switching position indication			Yes		
Switching output			–	PNP	Namur
Operating voltage range	Direct current DC	[V]	4 ... 250	10 ... 30	–
	Alternating current AC	[V]	4 ... 250	–	–
Intrinsic current consumption at operating voltage		[mA]	1 ... 5	0 ... 100	–
Nominal operating voltage DC		[V]	–	–	8
Max. input power P_i		[mW]	–	–	34
Max. input voltage U_i		[V]	–	–	16
Max. input current I_i		[mA]	–	–	25
Insulation voltage		[V]	250	50	25
Surge resistance		[kV]	2.5	0.5	0.5
Max. output current		[mA]	5 000	100	–
Switching current	Attenuated	[mA]	–	–	0 ... 1
	Non-attenuated	[mA]	–	–	3
Minimum load current			1 mA at 4 V / DC	–	–
Electrical connection			Screw terminal		
Permissible cable diameter		[mm]	7 ... 13		
Cable connector			M20x1.5		

Data sheet

Operating and environmental conditions	DAPZ-SB-M-250AC-DR-AR	DAPZ-SB-I-30DC-DR-AR	DAPZ-SB-I-25DC-EXDR-AR
Ambient temperature [°C]	-20 ... +70 °C		
Degree of protection	IP67		
CE marking (see declaration of conformity)	To EU Low Voltage Directive	–	To EU Explosion Protection Directive (ATEX)
ATEX category for gas	–	–	II 2GX
Type of ignition protection for gas	–	–	EEx ia IIB T6
Explosion-proof ambient temperature	–	–	-20°C ≤ Ta ≤ +70 °C
Certificate issuing authority	–	–	PTB 00 ATEX 2032 X
Explosion protection certification outside the EU	–	–	EPL Gb (RU)
	–	–	EPL Gc (RU)
PFD	–	–	4.69E-04
PFH	–	–	1.07E-07
Pollution degree	3		
Corrosion resistance CRC ¹⁾	2		

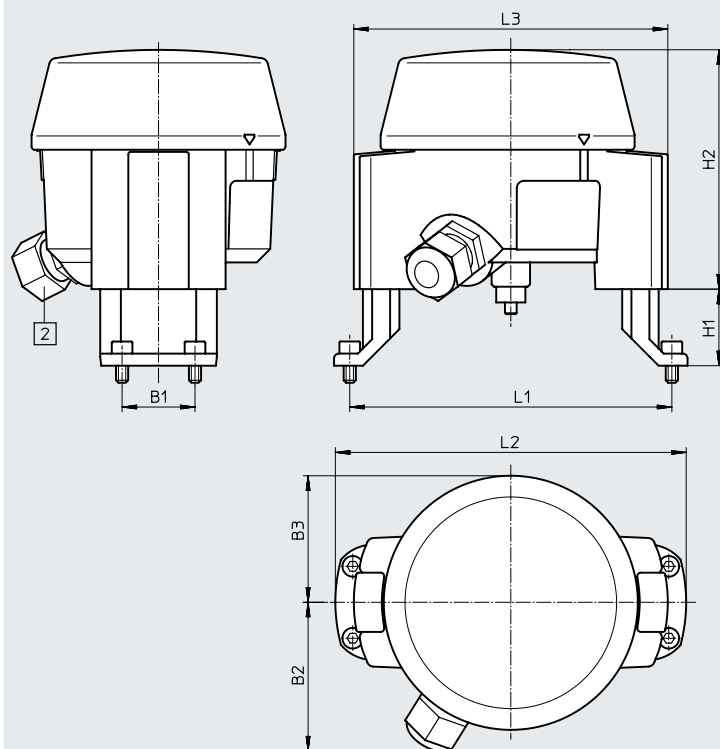
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Materials	
Housing cover	PC
Housing socket, console	ABS, PC
Seals	NBR
Note on materials	RoHS-compliant

Data sheet

Dimensions

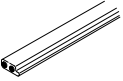
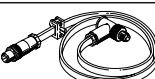
Download CAD data → www.festo.com

[2] Cable connector M20x1.5

	B1	B2	B3	H1	H2	L1	L2	L3
Feet mounted inwards								
Foot height adjustable	30	62	52.5	20, 30, 50	100	80	66	130
Feet mounted outwards								
Foot height adjustable	30	62	52.5	20, 30, 50	100	130	144	130

Ordering data				
Sensing type	Variant	Measuring principle	Part no.	Type
Mechanical	Basic type	Mechanical, electrical	534474	DAPZ-SB-M-250AC-DR-AR
Non-contacting	Basic type	Inductive	534475	DAPZ-SB-I-30DC-DR-AR
Non-contacting	Explosion-proof	Inductive	534476	DAPZ-SB-I-25DC-EXDR-AR

Accessories

Ordering data	Brief description	Part no.	Type
Bus connection			
	Flat cable for AS-Interface components, yellow, 100 m	18940	KASI-1.5-Y-100
	Cable distributor for flat cables, rotatable cables	18786	ASI-KVT-FK
	Cable distributor for flat cables, symmetrical cables	18797	ASI-KVT-FK-S
	Cable cap for flat cable (50 included in the scope of delivery)	18787	ASI-KK-FK
	Cable sleeve (20 included in the scope of delivery)	165593	ASI-KT-FK
Other			
	Addressing device for AS-Interface stations	18959	ASI-PRG-ADR
	Addressing cable for addressing device	18960	KASI-ADR