

Limit switch attachments DAPZ

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Type codes

		DAPZ	–	SB	–	M	–	250AC	–	DR	–	AR
Type												
DAPZ	Limit switch attachment											
Specification												
SB	Sensor box											
Measuring principle												
I	Inductive											
M	Electrical, micro switch											
Operating voltage												
25DC	8 V DC											
30DC	30 V DC											
250AC	250 V AC/DC											
Version												
EX	Explosion-proof											
D	Display											
R	Round design											
Variant												
AR	Foot height adjustable											

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Technical data

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



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		
Protection against short circuit			No	Pulsed	No
Switching element function			Changeover switch	Normally open contact	Normally closed contact
Protection against reverse polarity			No	For all electrical connections	No
Switching position display			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 Pi		[mW]	–	–	34
Max. input voltage Ui	Direct current DC	[V]	–	–	16
		[mA]	–	–	25
Insulation voltage		[V]	250	50	25
Surge capacity		[kV]	2.5	0.5	0.5
Max. output current		[mA]	5,000	100	–
Switching current	Attenuated	[mA]	–	–	0 ... 1
	Non-attenuated		–	–	3
Minimum load current			1 mA at 4 V/DC	–	–
Electrical connection			Screw terminal		
Permissible cable diameter		[mm]	7 ... 13		
Cable connector			M20x1.5		

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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		
Protection class	IP67		
CE marking (see declaration of conformity)	To EU Low Voltage Directive	–	To EU Explosion Protection Directive (ATEX)
ATEX category for gas	–	–	II 2GX
Explosion ignition protection type for gas	–	–	EEx ia IIB T6
Explosion-proof temperature rating	–	–	-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
Degree of contamination	3		
Corrosion resistance class CRC ¹⁾	2		

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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

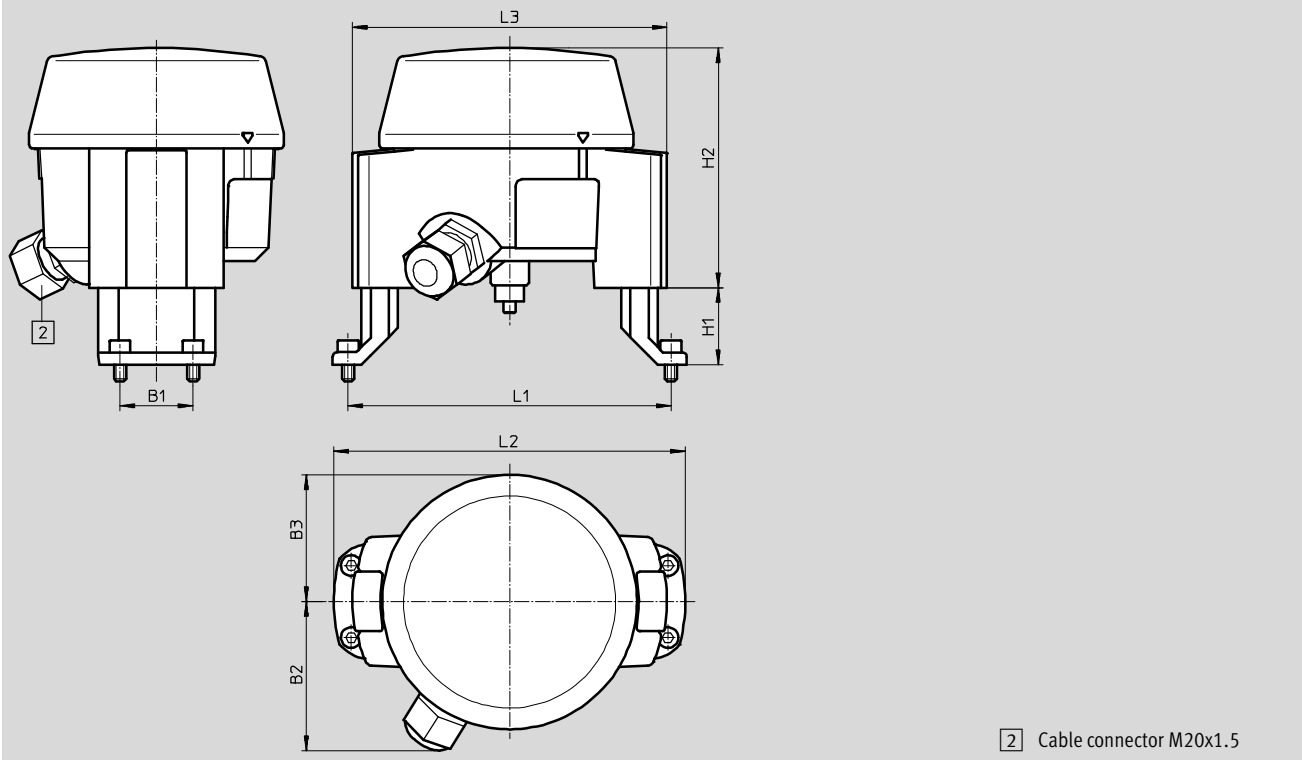
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Technical data

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Dimensions

Download CAD data → www.festo.com



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

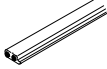
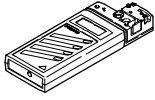
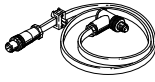
Ordering data

Sensing type	Variant	Measuring principle	Part No.	Type
Mechanical	Basic version	Mechanical, electrical	534474	DAPZ-SB-M-250AC-DR-AR
Contactless	Basic version	Inductive	534475	DAPZ-SB-I-30DC-DR-AR
Contactless	Explosion-proof	Inductive	534476	DAPZ-SB-I-25DC-EXDR-AR

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Accessories

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Ordering data			
	Brief description	Part No.	Type
Fieldbus connection			
	Flat cable for AS-interface components, yellow, 100 m	18940	KASI-1,5-Y-100
	Cable distributor for flat cable, cable rotatable	18786	ASI-KVT-FK
	Cable distributor for flat cable, cable symmetrical	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
Miscellaneous			
	Addressing device for AS-interface stations	18959	ASI-PRG-ADR
	Addressing cable for addressing device	18960	KASI-ADR