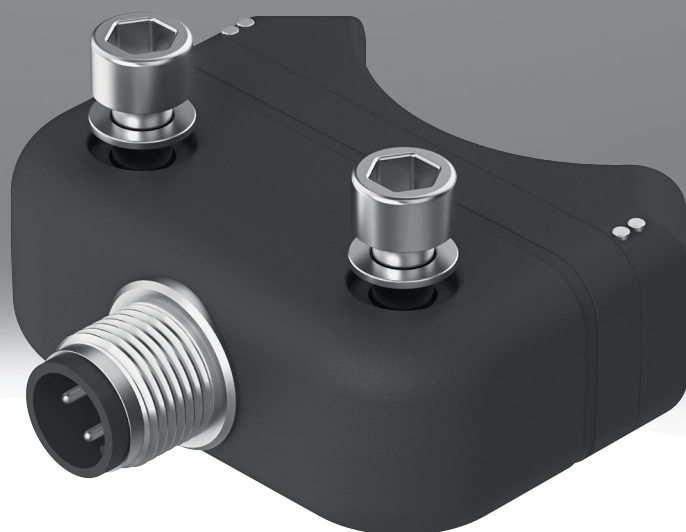


Limit switch box SRBI

FESTO



Characteristics

At a glance

Limit switch attachments SRBI are the compact solution when it comes to electrical feedback signals and monitoring the position of process valves that are actuated with pneumatic quarter turn actuators. They can be mounted directly, without any additional accessories, on quarter turn actuators with a mounting interface toVDI/VDE 3845. Direct mounting means that minimal space is required.

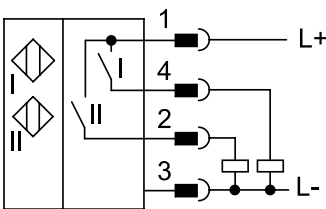
Design type



- Direct mounting on quarter turn actuators to VDI/VDE 3845
- LED display for operational readiness, switching status and status
- Suitable for clockwise and anticlockwise rotating drives with rotation up to 90°
- Compact polymer housing
- M12 plug, A-coded or screw terminal
- c UL us - Recognized (OL)

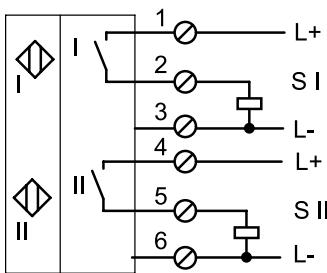
Electrical connection

[M12] Plug M12, A-coded



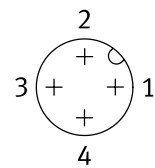
- Electrical connection, input plug, M12x1, 4-pin, A-coded
- Operating voltage range 10 ... 30 V DC
 - Switching output PNP, N/O contact

[C2] Screw terminal



- Electrical connection, input screw terminal
- Operating voltage range 10 ... 30 V DC
 - Switching output PNP, N/O contact

Circuitry



View of plug M12, A-coded

Type code

001	Series	
SRBI	Limit switch box SRBI	

002	Design type	
C2	Dual sensor, compact	

003	Sensor principle	
N	Proximity sensor, inductive	

004	Nominal operating voltage	
1	24 V DC	

005	Electrical output 1	
P	PNP	

006	Electrical connection	
C2	Screw terminal	
M12	Plug M12, A-coded	

Datasheet

General technical data

Electrical connection	Screw terminal	Plug M12, A-coded
Based on standard	EN 60947-5-2, VDI/VDE 3845	
Mounting position	optional	
Design	Angular	
Product weight	98 g	48 g

Characteristic electrical data

Electrical connection	Screw terminal	Plug M12, A-coded
Measuring principle	Inductive	
Switching output	PNP	
Switching element function	N/O contact	
Max. switching frequency	1,000 Hz	
Operational voltage range DC	10 ... 30 V	
Max. output current DC	200 mA	
Voltage drop	≤2.5 V	
No-load supply current	≤22.5 mA	
Off-state current	0 ... 0.5 mA	
Reverse polarity protection	For all electrical connections	
Short circuit current rating	Pulsed	

Display/operation

Electrical connection	Screw terminal	Plug M12, A-coded
Ready status indication	Green LED	
Switching status indication	Yellow LED	
Status indication	LED yellow = valve switching status, LED green = power supply indicator	

Electromechanics

Electrical connection	Screw terminal	Plug M12, A-coded
Electrical connection output	Spring-loaded terminal	–
Cable diameter	1.5 ... 2.5 mm	–
Connectable nominal cross section conductor	0.2 ... 2.5 mm ²	–
Cable fitting	M20x1.5	–

Operating and environmental conditions

Electrical connection	Screw terminal	Plug M12, A-coded
Ambient temperature	-25 ... 70°C	
Storage temperature	-40 ... 85°C	
Degree of protection	IP67	
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	
Pollution degree	3	
Approval ¹⁾	RCM trademark, c UL us - Recognized (OL)	
KC mark	KC-EMV	
CE mark (see declaration of conformity)	To EU EMC Directive, In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity)	To UK instructions for EMC, To UK RoHS instructions	
Certificate issuing authority	UL E232949	

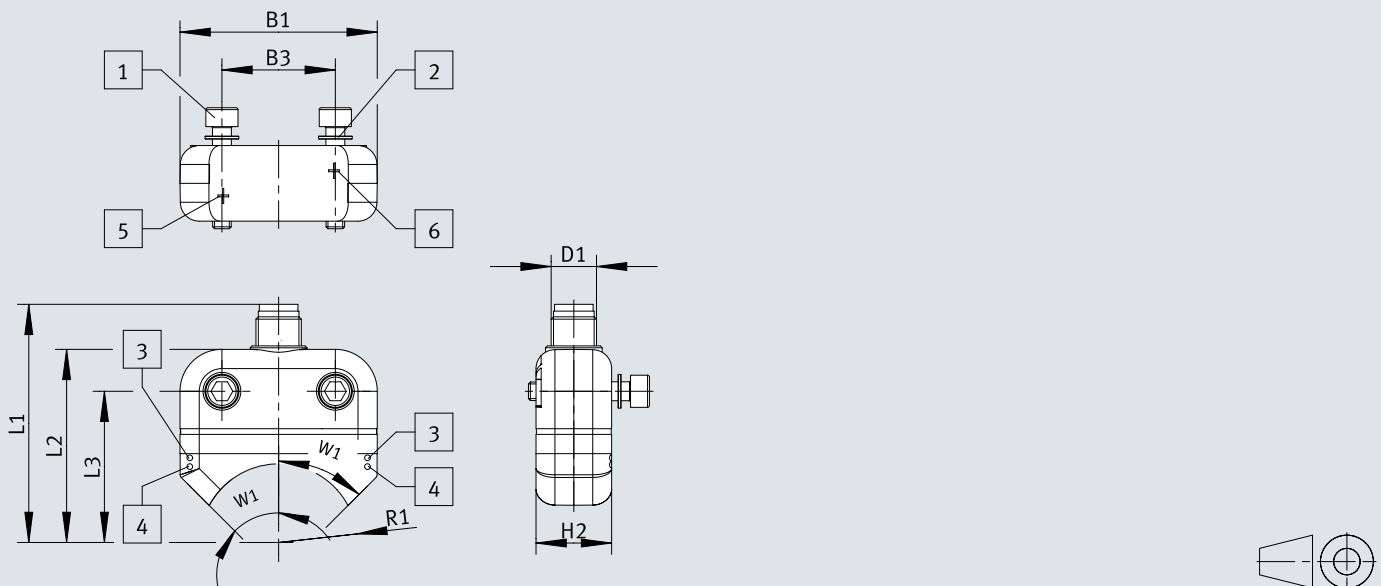
¹⁾ More information www.festo.com/catalogue/cmsx → Downloads

Materials

Electrical connection	Screw terminal	Plug M12, A-coded
Material housing	PBT	
Material screws	High-alloy stainless steel	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364 zone III	

Dimensions

Dimensions – SRBI-...-M12

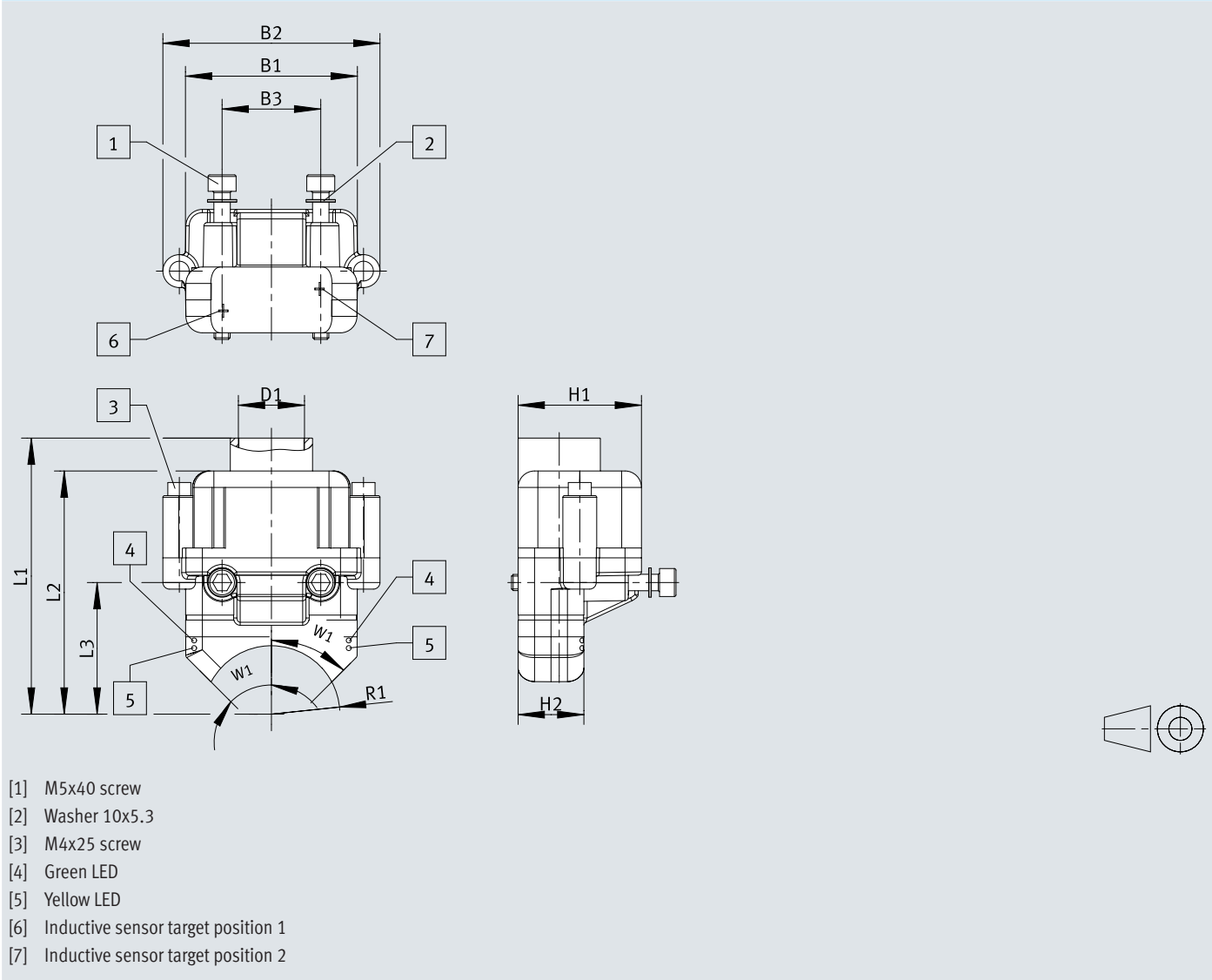
[Download CAD data](#) www.festo.com


- [1] M5x25 screw
- [2] Washer 10x5.3
- [3] Green LED
- [4] Yellow LED
- [5] Inductive sensor target position 1
- [6] Inductive sensor target position 2

	B1	B3	D1	H2	L1	L2	L3	R1	W1
SRBI-...-M12	52,2	30	M12	20	63	51,1	40	20,8	45°

Dimensions

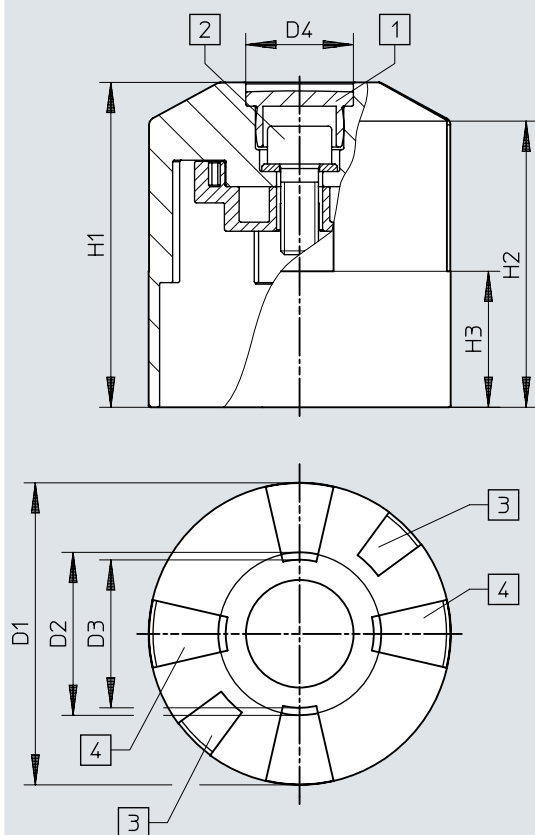
Dimensions – SRBI-...-C2 Download CAD data www.festo.com



	B1	B2	B3	D1	H1	H2	L1	L2	L3	R1	W1
SRBI-...-C2	52,2	66	30	M20x1,5	37,5	20	83,9	73,9	40	20,8	45°

Dimensions

Dimensions – Position indicators SASF

[Download CAD data](#) www.festo.com


- [1] Sealing plug
- [2] Screws (M5 and M6) and washer included in the scope of delivery
- [3] Actuation lugs
- [4] Identification stopper, yellow

	H1	H2	H3	D1 Ø	D2 Ø	D3 Ø	D4 Ø
SASF-S3-B-F-A20	33	28	8	40	21,6	19,6	14,3
SASF-S3-B-F-A30	43	38	18	40	21,6	19,6	14,3

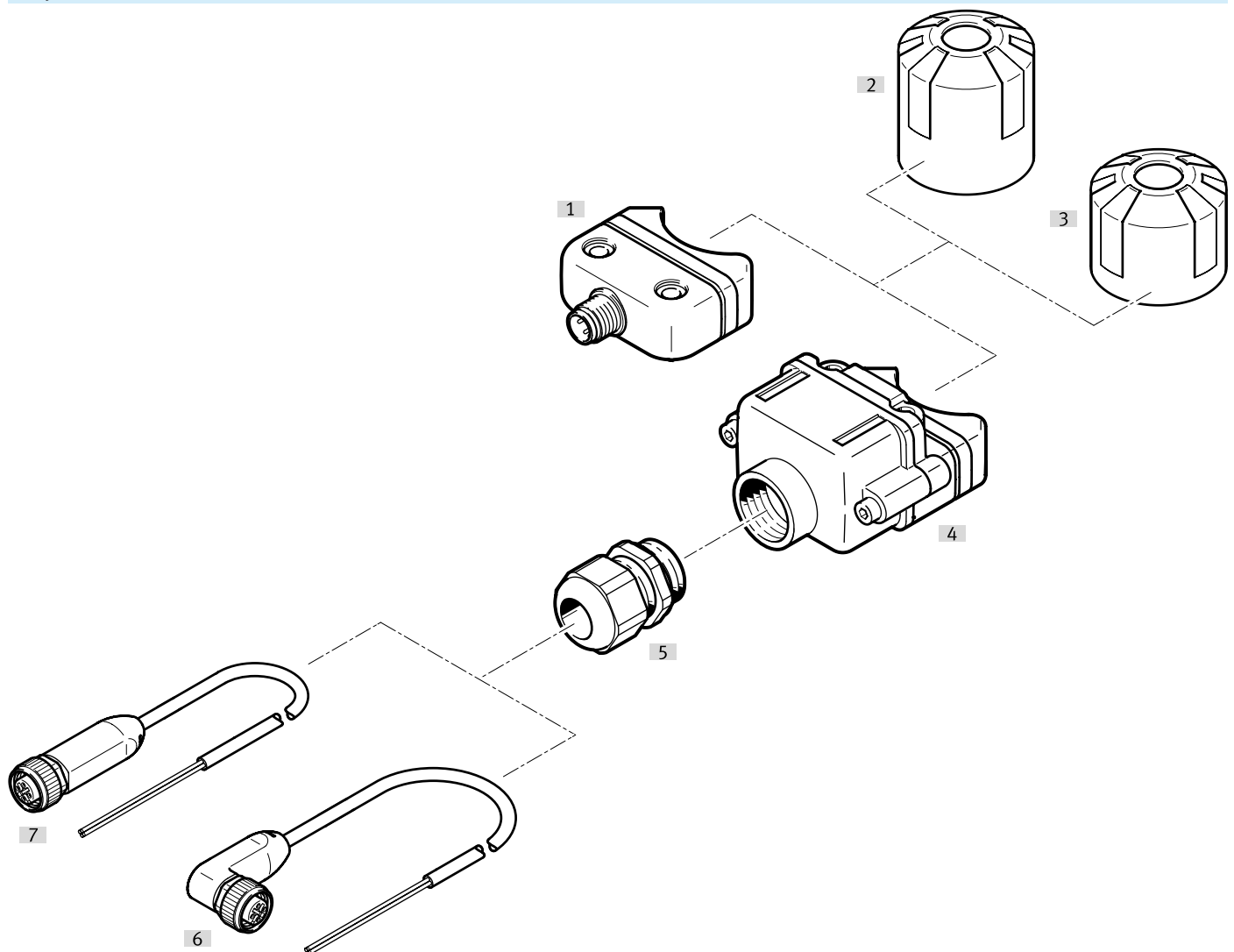
Ordering data

Electrical connection, input plug, M12x1, 4-pin, A-coded					
	Operational voltage range DC	Switching output	Switching element function	Part no.	Type
	10 ... 30 V	PNP	N/O contact	8140399	SRBI-C2-N-1-P-M12

Electrical connection, input screw terminal					
	Operational voltage range DC	Switching output	Switching element function	Part no.	Type
	10 ... 30 V	PNP	N/O contact	8140400	SRBI-C2-N-1-P-C2

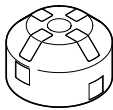
Peripherals

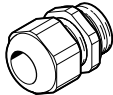
Peripherals overview

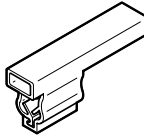


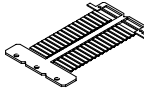
Accessories			→ Link
Type/order code	Description		
[1] Limit switch box SRBI-...-M12	Electrical connection input M12 plug, A-coded		srbi
[2] Position indicator SASF-S3-B-F-A30	• Dimensions Ø 40 x 43 • Connection for positioner and position indicator, in accordance with standard VDI/VDE 3845 Size AA 2		10
[3] Position indicator SASF-S3-B-F-A20	• Dimensions Ø 40 x 32 • Connection for positioner and position indicator, in accordance with standard VDI/VDE 3845 Size AA 1		10
[4] Limit switch box SRBI-...-C2	Electrical connection, input screw terminal		srbi
[5] Cable fitting NETC-...	• M20x1.5 made of polymer • Colour: black		10
[6] Connecting cable NEBA-...	• Connecting cables for connecting a process valve • Cable outlet, angled • Can be ordered separately as an accessory		10
[7] Connecting cable NEBA-...	• Connecting cables for connecting a process valve • Cable outlet, straight • Can be ordered separately as an accessory		10

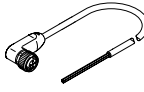
Accessories

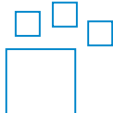
Position indicators SASF					
	Dimensions (W x L x H)	Housing colour	Product weight	Part no.	Type
	Ø 40 x 32	Black	24 g	8140396	SASF-S3-B-F-A20
	Ø 40 x 43		26 g	8140397	SASF-S3-B-F-A30

Cable fittings NETC					
	Size	Material of fittings	Colour	Part no.	Type
	M20x1.5	Polymer	Black	8151590	NETC-M20-PBK-T14

Inscription label holders						
	Length	Width	Height	Cable diameter	Part no.	Type
	23 mm	5.4 mm	12.1 mm	4.2 ... 5.6 mm	8143238	NEAU-LH-4

Inscription label				Part no.	Type
	Size				
	23x4 mm			541598	ASLR-L-423

Connecting cables NEBA						
	Cable length	Cable diameter	Electrical connection 1, cable outlet	Product weight	Part no.	Type
	2.5 m	4.5 mm	Straight	72 g	8078239	NEBA-M12G5-U-2.5-N-LE4
			Angled	73 g	8078248	NEBA-M12W5-U-2.5-N-LE4
	5 m		Straight	134 g	8078240	NEBA-M12G5-U-5-N-LE4
			Angled	135 g	8078249	NEBA-M12W5-U-5-N-LE4
	10 m			260 g	8078250	NEBA-M12W5-U-10-N-LE4

Connecting cables NEBA, configurable						
	Cable length	Cable diameter	Electrical connection 1, cable outlet	Product weight	Part no.	Type
	0.3 ... 30 m	3.8 ... 4.5 mm	Straight, angled	22 ... 373 g	8078221	NEBA-