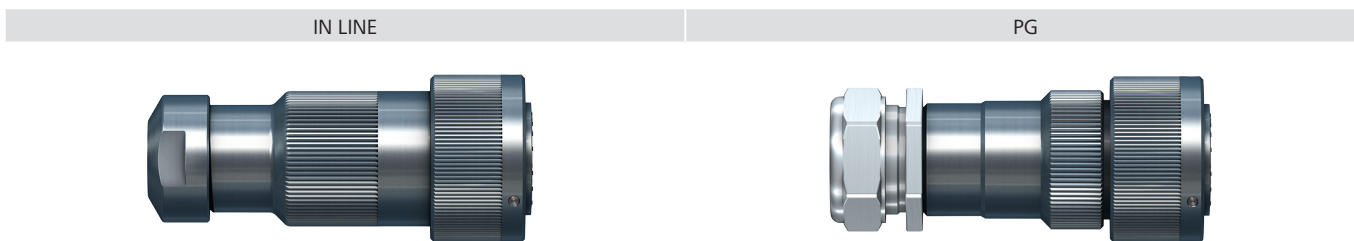


**SGM/SVM**  
**Control via Profibus DP, Modbus RTU**  
**Technical data ITT Cannon connector**

Canon ITT Connector complying with ROHS (A240)	Power connector (XK1)		Fieldbus connector	
	IN LINE	PG	BUS IN (XK2)	BUS OUT (XK3)
<b>Type (cable sealing)</b>	IN LINE	PG	IN LINE	IN LINE
Connection voltage max. (actuator values)	500 V (230 V)		50 V	
Max. current (actuator values)	41 A (6 A)		22 A	
Number of pin contacts	5		8	8
Pin contact design	Sockets		Sockets	Pins
Wire connection to pin contacts	Crimping			
Pin contact material	Brass/gold			
Cable diameter	See table below			
Connections at actuator	<p>For individual pin assignment refer to actuator wiring diagram.</p>			
Connector lock nut	Bayonet			
Fitting dimensions of complete connector	Max. length: 92 mm		Max. length: 92 mm	



Pin contact assignment			
Plug/socket connector	Pin	Assignment <sup>1)</sup>	Colour
	A	1 A	Green
	B	1B	Red
	E Ⓢ <sup>2)</sup>		
	Screw connection	Shield	
	A	2 A	Green
	B	2B	Red
	E Ⓢ <sup>2)</sup>		
	Screw connection	Shield	

Notes on table	
1) Assignment	Refer also to actuator wiring diagram.
2) Earthing conductor	As an option, pin E can be connected to the shielding. This is, however, not recommended.

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

**SGM/SVM**
**Control via Profibus DP, Modbus RTU**
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	Ø cable	Component	Ø wires	AUMA article number	Units
Power connectors	8.0 – 10.3 mm	IN LINE (D11) connector incl. pin	0.75 – 1.5 mm <sup>2</sup>	K011.165	compl.
	9.0 – 12.5 mm	IN LINE (D13) connector incl. pin	0.75 – 1.5 mm <sup>2</sup>	K011.748	compl.
	13 – 18 mm	PG connector incl. pin	up to 2.5 mm <sup>2</sup>	K011.706	compl.
BUS IN + BUS OUT	8.0 – 10.3 mm	IN LINE (D11) connector incl. pin	0.3 – 0.6 mm <sup>2</sup> (2 pcs)	Z126.358	compl.
			0.75 – 1.5 mm <sup>2</sup> (6 pcs)		
	11.5 – 14.2 mm	IN LINE (D14) connector incl. pin	0.3 – 0.6 mm <sup>2</sup> (2 pcs)	Z126.359	compl.
			0.75 – 1.5 mm <sup>2</sup> (6 pcs)		

**SGM/SVM**

**Control via Profibus DP, Modbus RTU**

**Technical data ITT Cannon connector**

Canon ITT connector	Power connector (XK1)	Fieldbus connector	
		BUS IN (XK2)	BUS OUT (XK3)
Connection voltage max. (actuator values)	500 V (230 V)	50 V	
Max. current (actuator values)	41 A (6 A)	22 A	
Number of pin contacts	5	8	8
Pin contact design	Sockets	Sockets	Pins
Wire connection to pin contacts	Crimping		
Pin contact material	Brass/gold		
Cable diameter	7 – 10.5 mm with rubber seal	18.5 mm <sup>1)</sup>	
Connections at actuator			
	For individual pin assignment refer to actuator wiring diagram.		
Connector lock nut	Bayonet		
Fitting dimensions of complete connector	Max. diameter 36.5 mm	Max. diameter 40 mm	
	Max. length <ul style="list-style-type: none"> <li>• 67 mm (without screen)</li> <li>• 90 mm (with screen)</li> </ul>	Max. length 70 mm	



**Pin contact assignment**

Plug/socket connector	Pin	Assignment <sup>2)</sup>	Colour
BUS IN (XK2) 	A	1 A	Green
	B	1B	Red
	E Ⓢ <sup>3)</sup>		
	Screw connection	Shield	
BUS OUT (XK3) 	A	2 A	Green
	B	2B	Red
	E Ⓢ <sup>3)</sup>		
	Screw connection	Shield	

**Notes on table**

1) Cable diameter	No rubber seal included. For tight sealing, 18.5 mm have to be completely filled, either with the cable or with an additional coating.
2) Assignment	Refer also to actuator wiring diagram.
3) Earthing conductor	As an option, pin E can be connected to the shielding. This is, however, not recommended.

**SGM/SVM**
**Control via Profibus DP, Modbus RTU**
**Technical data ITT Cannon connector**

	Component	Ø wires	AUMA article number	Units
Power connectors	Connector without screen incl. pins size 12	0.75 – 1.5 mm <sup>2</sup>	Z113.088	compl.
	Connector with screen incl. pins size 12	0.75 – 1.5 mm <sup>2</sup>	K009.945	compl.
BUS IN	Housing	–	K007.665	1
	Pin (0.3 – 0.6) size 16	0.3 – 0.6 mm <sup>2</sup>	K005.147	2
	Pin (0.75 – 1.5) size 16	0.75 – 1.5 mm <sup>2</sup>	K007.342	6
	Heat shrink sleeve	–	K006.954	1
BUS OUT	Housing	–	K007.666	1
	Pin (0.3 – 0.6) size 16	0.3 – 0.6 mm <sup>2</sup>	K002.587	2
	Pin (0.75 – 1.5) size 16	0.75 – 1.5 mm <sup>2</sup>	K007.667	6
	Heat shrink sleeve	–	K006.954	1

**SGM/SVM**

**Control via Profibus DP, Modbus RTU**

**Technical data ITT Cannon connector**

**Connecting cables and wires to the connector**

Operation instructions Connecting the cable including crimping and inserting the pin contacts is described in the ITT Cannon operation instructions. Short instructions are included with the connectors. For more detailed descriptions, refer to the manufacturer.

Special tools The following special tools by ITT Cannon are required for crimping and inserting the pin contacts. These tools can either be ordered from the manufacturer or leased from AUMA.

Crimping pliers  
(for signal and power connectors)



Cannon ITT designation: M22520-1/01: Hand crimp tool for pins of sizes 10, 12, 16, 16S (0.75 – 6.0 mm<sup>2</sup>)

AUMA article number: K009.855



Cannon ITT designation: TH 452: Turret head for hand crimp tool, pins of sizes (12, 15, 15S, 16, 16S)

AUMA article number: K009.856



Cannon ITT designation: CCT-CGF-E: Hand crimp tool for size 12 pins used in power connector (0.75 – 6.0 mm<sup>2</sup>)

AUMA article number: K009.876

Insertion tool for pin contacts  
(for signal and power connectors)



Cannon ITT designation: CIT-F80-12: Insertion tool for inserting size 12 pin contacts

AUMA article number: K009.877



Cannon ITT designation: 226-1018-000: Guide pin for insertion of size 12 pins into holes in plastic insert

AUMA article number: K009.879

**SGM/SVM**

Control via Profibus DP, Modbus RTU

Technical data ITT Cannon connector

Ejection tool for pin contacts  
(for signal and power connectors)

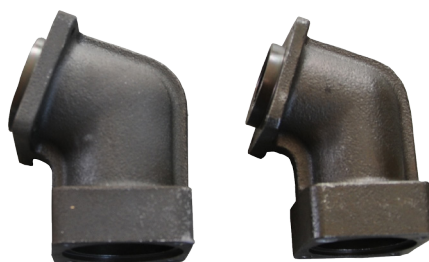


Cannon ITT designation:	CET-F80-12: Extraction tool for size 12 pins
AUMA article number:	K009.878

**Accessories**

Angle adapters

Use	AUMA article number	Surface
For signal connectors	Z101.862	A66
	Z127.404	A240 (ROHS compliant)
For signal/fieldbus connectors	Z105.626	A66
	Z127.405	A240 (ROHS compliant)



Z101.862-0

Z101.626-0

Angle adapters can be used to deflect cable-connector arrangement by 70° from the output drive or the valve.  
Retrofit kit for 90° angle at the actuator for fieldbus connection Z105.759