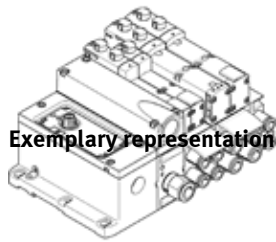# valve terminal
VTSA-FB-AP

Part number: 8130716
New

Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Electrical connection	Fieldbus
Electrical I/O system	Yes
Valve terminal type	44
Protocol	AP
Mounting type	Direct mounting via through-holes
	On H-rail with accessories
	On mounting frame
	Tightened
	Via through-hole for M5 screw
	Via through-hole for M6 screw
	With through-hole for M5 screw with accessories
	With through-hole for M6 screw with accessories
Max. no. of modules	15
Assembly position	Any, on H-rail: horizontal
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	Note ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 ... 60 °C
Relative air humidity	5 - 90 %
	non-condensing
Nominal altitude of use	<= 2000 m ASL (> 79,5 kPa)
Max. installation height	3,500 m
Note on max. installation height	> 2000 m ASL (< 79,5 kPa)
	Note ambient temperature derating according to IEC 61131-2:2017
Protection class	IP65
Note on degree of protection	Unused connections sealed
Corrosion resistance classification CRC	0 - No corrosion stress
Protection against direct and indirect contact	SELV/PELV fixed power supplies required
Degree of contamination	2
Operating pressure MPa	-0.09 ... 1 MPa
Operating pressure	-0.9 ... 10 bar
Pilot pressure MPa	0.3 ... 1 MPa
Pilot pressure	3 ... 10 bar
Operating pressure for valve terminal with internal pilot air supply	0.3 ... 1 MPa
	3 ... 10 bar
	43.5 ... 145 psi
PWIS conformity	VDMA24364-B1/B2-L
CE mark (see declaration of conformity)	to EU directive for EMC
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Authorisation	RCM Mark

Feature	Value
Materials note	Conforms to RoHS
	Halogen-free
	Free of phosphoric acid ester
Material seals	NBR
Valve terminal structure	Modular, valve sizes can be mixed
Max. number of valve positions	32
Max. no. of pressure zones	32
Type of actuation	electrical
Valve function	2x2/2 closed, monostable
	2x3/2 closed, monostable
	2x3/2 open, monostable
	2x3/2 open/closed, monostable
	5/2 bistable
	5/2 bistable-dominant
	5/2 monostable
	5/2-way, monostable safety function
	5/3 pressurised
	5/3 exhausted
	5/3 closed
	5/3-way, connection 4 pressurised, 2 exhausted
Design structure	Piston slide
Valve size	18 mm
	26 mm
	42 mm
	65 mm
	52 mm
Pilot air supply	external
	Internal
Max. standard nominal flow rate	700 l/min at 18 mm
	1350 l/min at 26 mm
	1860 l/min at 42 mm
	2900 l/min at 52 mm
	4000 l/min at 65 mm
Suitability for vacuum	Yes
Exhaust-air function	Via throttle plate
Signal status display	LED
Note regarding fieldbus interface	All information that is relevant to CPX-AP can be read out via the Ethernet interfaces/fieldbus connections and changed depending on the function.
	Auto MDI, the bus module performs a crossover check
	Firmware update via Ethernet interface/fieldbus connection
	I&M functionality according to PNO is supported.
Fieldbus interface	Ethernet
Fieldbus interface, protocol	ACD (Addr. Conflict Detection)
	DLR (Device Level Ring)
	EtherCAT
	EtherCAT CoE
	EtherCAT Distrib. Clocks (DC)
	EtherCAT EoE
	MRP, MRPD (ring redundancy)
	EtherCAT FoE
	EtherCAT Mod. Dev. Prof. (MDP)
	EtherNet/IP
	EtherNet/IP QoS
	EtherNet/IP Quickconnect
	LLDP
	Modbus/TCP (Modbus/UDP)
	S2 system redundancy
	PROFINET FSU
	PROFINET I&M0 .. 3
	PROFINET IRT

Feature	Value
	PROFINET RT
	PROFINET Shared device
	SNMP
Fieldbus interface, type of connection	2x socket
Fieldbus interface, connection technology	M12x1, D-coded in accordance with EN 61076-2-101
	RJ45 according to IEC 61076-3-117 (V14)
Fieldbus interface, number of pins/wires	4 ... 8 psi
Fieldbus interface, electrical isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Maximum address volume for inputs	1,024 Byte
	4,096 Byte
Note on inlets	EP: 488 Byte
	Modbus: 4096 Byte
Maximum address volume for outputs	1,024 Byte
	4,096 Byte
Note on outputs	EP: 496 Byte
	Modbus: 4096 Byte
Internal cycle time	‹ 1 ms
Configuration support	EDS file
	ESI file
	GSDML file
	IODD file
Power supply, function	Incoming electronics/sensors and load and functional earth
Power supply, type of connection	Plug
Power supply, connection technology	7/8" according to NFPA/T3.5.29
	M12x1, L-coded to EN 61076-2-111
	Push-pull according to IEC 61076-3-126
	M18x1
Power supply, number of pins/wires	4 ... 5 psi
Nominal operating voltage, AC	110 V
Note regarding operating voltage	SELV/PELV fixed power supplies required
	Note voltage drop
Nominal operating voltage DC	24 V
Note on nominal operating voltage DC	Prot.Ext.Low-Volt. IEC 60204-1
Permissible voltage fluctuation	+/- 10 %
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Max. power supply	8 ... 16 A
Typ. intrinsic current consumption at nominal operating voltage for electronic system/sensors	0.04 ... 10 A
Typ. intrinsic current consumption at nominal operating voltage, load	0.003 ... 10 A
Power failure buffering	10 ms
Potential separation between the supply voltages electronics/sensors and load/valves	Yes
Polarity protected	Yes