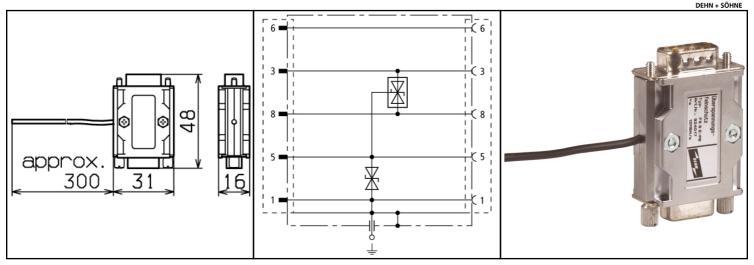
FS 9E PB 6





Dimension drawing FS 9E PB

Diode protective circuit with very low capacity. Pin 6 without protection for the programming interface.

Adapted to Profibus-DP

Transmission up to 12 MBit/s

9-pole D-Sub, for Profibus-DP applications.

For installation in conformity with the lightning protection zones concept at the boundaries from 1 – 2 and higher

Approvals, Certifications Ordering information Type FS 9E PB 6 Part No. 924 017		from 1 – 2 and higher
Nominal voltage [U _N] 6 V Max. continuous operating d.c. voltage [U _N] 7 V C2 Nominal discharge current (8/20 µs) line-line [I _N] 0.2 kA C2 Nominal discharge current (8/20 µs) Ser-SG [I _N] 0.2 kA C2 Nominal discharge current (8/20 µs) Ser-SG [I _N] 0.4 kA Voltage protection level line-line for I _N C2 [U _P] 2.25 V Voltage protection level line-SG for I _N C2 [U _P] 2.25 V Voltage protection level line-SG for I _N C2 [U _P] 2.25 V Voltage protection level line-SG for I _N C2 [U _P] 2.25 V Voltage protection level line-SG for I _N X/µs C3 [U _P] 3 ll N Voltage protection level line-SG for I kV/µs C3 [U _P] 3 ll N Voltage protection level SG-PG for 1 kV/µs C3 [U _P] 3 ll N Cut-off frequency [I _G] 90 MHz Capacitance line-IIne [C] 25 pF Capacitance line-IIne [C] 35 pF Operating temperature range 40 °C+80 °C Degree of protection P 40 For mounting on D-Sub Sub 9 plug /D-Sub 9 socket Pinning Line: 3/R, 5/G. 5, FG: 1, 6: unprotected Earthing via 0utgoing earth conductor 0.75 mm²-0.3		FS 9E PB 6
Max. continuous operating d.c. voltage [U _d 7 ∨ C Nominal discharge current (8/20 µs) line-line [I _{nd} 0.2 kA	SPD class	TYPE 4 Pi
C2 Nominal discharge current (8/20 µs) line-line [In] 0.2 kA C2 Nominal discharge current (8/20 µs) line-SG [In] 0.2 kA C3 Nominal discharge current (8/20 µs) sG-FG [In] 0.4 kA C4 Nominal discharge current (8/20 µs) SG-FG [In] 0.4 kA Voltage protection level line-line for In, C2 [Up] ≥ 25 V Voltage protection level line-SG for In, C2 [Up] ≥ 25 V Voltage protection level line-SG for I kV/µs C3 [Up] ≥ 18 V Voltage protection level line-SG for I kV/µs C3 [Up] ≥ 18 V Voltage protection level SG-PG for I kV/µs C3 [Up] ≥ 18 V Voltage protection level SG-PG for I kV/µs C3 [Up] ≥ 18 V Cut-off frequency [f _{eq} 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operated protection P4 0 Degree of protection P4 0 Per mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 pluy / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material 0 log (F)	Nominal voltage [U _{N]}	6 V
C2 Nominal discharge current (8/20 µs) Sine-SG [In] 0.2 kA C2 Nominal discharge current (8/20 µs) SG-PG [In] 0.4 kA Voltage protection level line-line for In, C2 [Up] ≥ 25 V Voltage protection level line-SG for In, C2 [Up] ≥ 25 V Voltage protection level SG-PG for In, C2 [Up] ≥ 25 V Voltage protection level line-SG for 1 kV/µs C3 [Up] ≥ 18 V Voltage protection level line-SG for 1 kV/µs C3 [Up] ≥ 18 V Voltage protection level SG-PG for 1 kV/µs C3 [Up] ≥ 18 V Cut-off frequency [f _G] 90 MHz Capacitance line-Ine [C] 25 pF Capacitance line-Ine [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, Sc: S, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²-0.3 m long (PG) Endosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications <t< th=""><th>Max. continuous operating d.c. voltage [U_{c]}</th><th>7 V</th></t<>	Max. continuous operating d.c. voltage [U _{c]}	7 V
C2 Nominal discharge current (8/20 μs) SG-PG [In] 0.4 kA Voltage protection level line-line for In C2 [Up] ≤ 25 V Voltage protection level SG-PG for In C2 [Up] ≤ 25 V Voltage protection level SG-PG for In C2 [Up] ≤ 25 V Voltage protection level line-line at 1 kV/μs C3 [Up] ≤ 18 V Voltage protection level line-SG for 1 kV/μs C3 [Up] ≤ 18 V Voltage protection level line-SG for 1 kV/μs C3 [Up] ≤ 18 V Cut-off frequency [fq] 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range 40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm² 0.3 mm long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6	C2 Nominal discharge current (8/20 µs) line-line [I _{n]}	0.2 kA
Voltage protection level line-line for I _n C2 [U _p] ≤ 25 V Voltage protection level SG-PG for I _n C2 [U _p] ≤ 25 V Voltage protection level line-line at 1 kV/µs C3 [U _p] ≤ 18 V Voltage protection level line-line at 1 kV/µs C3 [U _p] ≤ 18 V Voltage protection level line-SG for 1 kV/µs C3 [U _p] ≤ 18 V Cut-off frequency [f _{oj} 90 MHz Capacitance line-line [C] 25 pF Capacitance line-line [C] 35 pF Operating temperature range 40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm² 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information F5 9E PB 6 Type F5 9E PB 6 Part No. 924 017	C2 Nominal discharge current (8/20 μ s) line-SG $[I_{n]}$	0.2 kA
Voltage protection level line-SG for I _n C2 [U _{p1} ≤ 25 V Voltage protection level SG-PG for I _n C2 [U _{p1} ≤ 25 V Voltage protection level line-line at 1 kV/µs C3 [U _{p1} ≤ 18 V Voltage protection level SG-PG for 1 kV/µs C3 [U _{p1} ≤ 18 V Voltage protection level SG-PG for 1 kV/µs C3 [U _{p1} ≤ 18 V Cut-off frequency [F _{c1} 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, Sc: S, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm² 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information PS PB B 6 Part No. 924 017	C2 Nominal discharge current (8/20 μs) SG-PG [I _{n]}	0.4 kA
Voltage protection level SG-PG for I _n C2 [U _p] ≤ 25 V Voltage protection level line-line at 1 kV/µs C3 [U _p] ≤ 18 V Voltage protection level line-SG for 1 kV/µs C3 [U _p] ≤ 18 V Cut-off frequency [f _{eq}] 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection P4 0 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, Sci S, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm² 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information F5 9E PB 6 Type \$24 017	Voltage protection level line-line for I _n C2 [U _{P]}	≤ 25 V
Voltage protection level line-line at 1 kV/µs C3 [Uq] ≤ 18 V Voltage protection level SG-PG for 1 kV/µs C3 [Up] ≤ 18 V Cut-off frequency [feg] 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm². 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6 Type FS 9E PB 6 Part No. 924 017	Voltage protection level line-SG for I_n ${\rm C2}$ $[{\rm U_{pl}}$	≤ 25 V
Voltage protection level SG-PG for 1 kV/µs C3 [Up] ≤ 18 V Cut-off frequency [f _{G]} 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, 5G: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6 Part No. 924 017	Voltage protection level SG-PG for I _n C2 [U _{p]}	≤ 25 V
Voltage protection level SG-PG for 1 kV/µs C3 [Up] ≤ 18 V Cut-off frequency [fe] 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²· 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6 Part No. 924 017	Voltage protection level line-line at 1 kV/µs C3 [U _{C]}	≤ 18 V
Cut-off frequency [f _G] 90 MHz Capacitance line-line [C] 25 pF Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering Information Typee FS 9E PB 6 Part No. 924 017	Voltage protection level line-SG for 1 kV/µs C3 [U _{p]}	≤ 18 V
Capacitance line-line [C]25 pFCapacitance line-SG [C]35 pFOperating temperature range-40°C+80°CDegree of protectionIP 40For mounting onD-Sub (2 threaded screws 4/40 UNC)Connection input/outputD-Sub 9 plug / D-Sub 9 socketPinningLine: 3/8, SG: 5, PG: 1, 6: unprotectedEarthing viaoutgoing earth conductor 0.75 mm²- 0.3 m long (PG)Enclosure materialplastic, metallisedColoursilverTest standardsIEC 61643-21Approvals, CertificationsGOSTOrdering information TypeFS 9E PB 6 Part No.Part No.924 017	Voltage protection level SG-PG for 1 kV/µs C3 [Up]	≤ 18 V
Capacitance line-SG [C] 35 pF Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6 Part No. 924 017	Cut-off frequency [f _{G]}	90 MHz
Operating temperature range -40°C+80°C Degree of protection IP 40 For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm². 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information FS 9E PB 6 Part No. 924 017	Capacitance line-line [C]	25 pF
Degree of protection For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards lEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Capacitance line-SG [C]	35 pF
For mounting on D-Sub (2 threaded screws 4/40 UNC) Connection input/output D-Sub 9 plug / D-Sub 9 socket Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm². 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Operating temperature range	-40°C+80°C
Connection input/output D-Sub 9 plug / D-Sub 9 socket Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Degree of protection	IP 40
Pinning Line: 3/8, SG: 5, PG: 1, 6: unprotected Earthing via outgoing earth conductor 0.75 mm²- 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	For mounting on	D-Sub (2 threaded screws 4/40 UNC)
Earthing via outgoing earth conductor 0.75 mm², 0.3 m long (PG) Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Connection input/output	D-Sub 9 plug / D-Sub 9 socket
Enclosure material plastic, metallised Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Pinning	Line: 3/8, SG: 5, PG: 1, 6: unprotected
Colour silver Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Earthing via	outgoing earth conductor 0.75 mm ^{2,} 0.3 m long (PG)
Test standards IEC 61643-21 Approvals, Certifications GOST Ordering information Type FS 9E PB 6 Part No. 924 017	Enclosure material	plastic, metallised
Approvals, Certifications Ordering information Type FS 9E PB 6 Part No. 924 017	Colour	silver
Ordering information Type FS 9E PB 6 Part No. 924 017	Test standards	IEC 61643-21
Type FS 9E PB 6 Part No. 924 017	Approvals, Certifications	GOST
Part No. 924 017	Ordering information	
	Type Part No.	
	Packing unit	924 017 1 pc

We reserve the right to modify design, technology, dimensions, weights and materials according to technical progress. Illustrations are non-binding. Pictures may differ from the modules described.