

FSE Fan Speed Control Module

Electronic Fan Speed Control Modules FSE generate a 0...10 V signal, which is used to control the speed of condenser fan motors in commercial refrigeration and air-conditioning systems. Ideal for use with high efficient EC-motors, but can be also used with phase cut controllers for induction motors.

Features

- Energy saving due to improved cooling efficiency
- Pressure for minimum speed adjustable
- Small proportional band and large hysteresis to minimize cycling at small pressure changes
- Reduced fan noise level during low ambient temp. conditions
- Improved overall performance of cooling system
- Easy installation with cables for power supply and motor connection factory wired
- IP 65 protection for outdoor mounting suitable for any size of EC fan motors
- UL file nr.: E355325 (Released for 43 bar)



FSE Control Modules

Selection Chart Control Modules FSE

Type	Part No.	Refrigerants	Adjustment Range PCut (bar) *	Factory settings (bar)	Max. Operating Pressure PS (bar)	PT (bar)	Pressure Connection
FSE-01S	804 701	R134a	4 ... 12.5	7.8	27 bar	30 bar	7/16" -20 UNF female
FSE-02S	804 706	R22, R407C, R404A, R507	10 ... 21	15.5	32 bar	36 bar	7/16" -20 UNF female
FSE-03S	804 711	R410A	12 ... 28	20.4	45 bar	50 bar	7/16" -20 UNF female

Cable Assemblies for Connection of FSE Control Module to Controller

Type	Part No.	No of Leads	Diameter of Leads	Temperature Range °C	Cable Length (m)
PS3-N15	804 580	3	0.75 mm ²	-25...+80	1.5
PS3-N30	804 581				3.0
PS3-N60	804 582				6.0

Technical Data FSE

Supply Voltage	10 V; Supplied by Controller
Operating Current 0...10 VDC Output	Max. 1 mA
Medium Compatibility	HFC, HCFC, HFO/HFO Blends, POE-, Synthetic and Mineral Oils
Protection Class (IEC529/EN 60529)	IP 65 with Cable Connector Assemblies PS3-Nxx

Pressure Connection FSE-01S and FSE-02S FSE-03S	Brass Stainless Steel
Temperature Range Storage and Transportation Operation	-30° ... +70°C -20° ... +65°C
Materials Housing Cover	PA