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	selec	FL-GT35-DI04-PS-230V / FL-GT35-DI04-PS-24V Operating Instructions		
-V01	1. PRODUCT PROFILE	2. DESCRIPTION		
OP619		<ul> <li>FL-GT35-DI04-PS-230V/ FL-GT35-DI04-PS-24V as shown in Figure 1.1 and Figure1.2 are used as a plug-in module in Flexys GT35 and not as an independent module.</li> <li>4-Digital Inputs (can function as Fast Inputs)</li> <li>Sensor Supply in FL-GT35-DI04-PS-230V</li> </ul>		

Figure 1.1 : FL-GT35-DI04-PS-230V

Figure 1.1 : FL-GT35-DI04-PS-24V

3. ELECTRICAL SPECIFICATIONS				
Parameter	FL-GT35-DI04-PS-230V	FL-GT35-DI04-PS-24V		
Supply Voltage	230V AC ( 90 ~ 270V AC)	24V DC (±10% V DC) NA 8 W Yes		
Sensor Supply (SS)	10V (100 mA)			
Power Consumption	18 VA			
Reverse polarity protection	NA			
Voltage interruption	Up to 10 ms			
Operating Temperature 0 to 55°C		55°C		
Storage Temperature	-20 to 70°C			
Humidity	95%			
Connector	Spring type pluggable terminal block (5.08 mm pitch)			
Weight (g)	90	80		

NOTE : FL-GT35-DI04-PS-230V card limitations 1) Maximum 1 FL-SC-RO08 cards 2) Maximum 1 FL-SC-A004-X card 3) Not supported FL-SC-A004-X if FL-SC-RO08 used and vice-versa. 4) Maximum 2 FL-SC-DI04-RO04 cards.

COMPLIANCE WITH STANDARD		
EMC/EMI compliance	IEC61131-2, Clause 8	
Safety compliance	IEC61131-2, Clause 11	
Immunity Zone	Zone A	
Power supply FL-GT35-DI04-PS-24V	PS2, Safety Extra Low Voltage Circuit	

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DIGITAL INPUTS					* <sup>1</sup> = 90° Phase	shift signals	
Number of Digital I	nput		4 (Includin	g 4 Fast Inputs	)		
Input Type			DC, PNP	DC, PNP			
<b>Operating Modes</b> (user configurable)			Unidirectional / Bidirectional / Quadrature / Dual Unidirectional / None				
<b>a</b> i i				MODE			
Channel	DI	UNI	BI	QUAD	DUAL UNI	None	
500	10	Rate Totalizer	Rate Totalizer	1st input*1	Rate Totalizer	Digital Input	
FC0	11	Digital Input	Direction	2nd input *1	Totalizer	Digital Input	
FC1	12	Rate Totalizer	Rate Totalizer	1st input*1	Rate Totalizer	Digital Input	
FCT	13	Digital Input	Direction	2nd input *1	Totalizer	Digital Input	
Operating Range			6 ~ 30V D	6 ~ 30V DC (V+)			
Input current		8mA Max	8mA Max				
Antion Laural		ON 🖚 OFF	<2V DC	<2V DC			
Action Level	Action Level OFF -> ON		≥6V DC	≥6V DC			
		Digital Inpu	Digital Input mode : typical 1 ms (based on ladder scan time)				
Response Time			Fast Input	Fast Input mode : 100µsec			
Input Impedance			3.3 kΩ				
Debounce Time		0 ~ 255ms	0 ~ 255ms (Default = 10ms)				
Maximum Frequen	cy (Fast in	puts)	5 kHz				
Isolation Protection against polarity inversion		2.2 kV (CF	2.2 kV (CPU and Inputs)				
		Yes	Yes				
Existence of common points between channels		SS-/GND	SS-/GND				
Effect of incorrect input terminal or withdrawing / inserting input module		Unstable r	esponses or inp	out / product dar	nage		

# 4. INTERNAL PIN OUT DESCRIPTION FOR 6 PIN JACK (PORT 1)

	DESCRIPTION
1	RS485 Slave +ve
2	
3	
4	
5	
6	RS485 Slave –ve

under power



PIN 1

### 5. TYPICAL WIRING DIAGRAM





Figure 5.1 : Digital inputs via external 24V supply



Figure 5.3 : FL-GT35-DI04-PS-24V wiring diagram

#### 6. SAFETY SUMMARY

- > To prevent risk of electric shock, power supply to the controller must be kept off while wiring.
- > Wiring shall be done strictly according to the terminal layout provided in the operating manual.

When operating FL-GT35-DI04-PS-24V, ensure that power at its terminal is +24V and GND (power range is 21.6V DC ~ 26.4V DC).
When where is least than 19V DC Controller will step operating and all an board autouts will turn OCF

When voltage is less than 18V DC, Controller will stop operating and all on board outputs will turn OFF.

7. ORDER CODE INFORMATION		
ORDER CODE	DESCRIPTION	
FL-GT35-DI04-PS-230V	230V AC Power Supply	
FL-GT35-DI04-PS-24V	24V DC Power Supply	

## **DISCLAIMER LIABILITY**

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However the information in this publication is reviewed and any necessary corrections are included in subsequent editions.

### **?** SERVICE DETAILS

This device contains no user serviceable parts and requires special equipment and specialized engineers for repair.

Please contact service center for repair on the following numbers :

Tel. No.: + 91-7498077172; Email: service@selec.com

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG POWER SUPPLY.

(Specifications are subject to change, since development is a continuous process.)

Selec Controls Pvt. Ltd., India

# Factory Address :

EL-27/1, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 710, INDIA.

Tel. No.: +91-22-41 418 419/430 | Fax No.: +91-22-28471733 | Toll free: 1800 227 353(BSNL/MTNL Subscribers only) Website: www.selec.com | Email: sales@selec.com

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