TEKSENS

Vibrating fork level limit switches manual (VR4000)





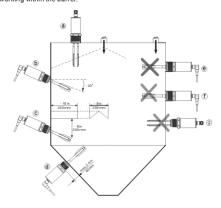
www.teksens.com.tr

Installation Instruction

- 1. The preferred installation for reducing the shock to materials and the hanging of materials is making the switch at an angle of 15-20 to horizontal.

 2. Keep the switches away from the feed opening of the barrel to reduce the
- shock to materials, if unavoidable, a separator plate is necessary.
- 3. The inlet of the connection box should be downward and the fixing nuts of
- power line must be tightened.

 4.The operators cannot use vibration rod to climb or hook any object when working within the barrel.



Correct mounting: Top-mounted

- Tork is vertical towards bottom and mounted in any position far away from
- the feed opening of top side. b Laterally mounted

Fork angled slightly downwards by 15~20 degree so as to reduce the shock and the hanging of the flowing materials.

© Laterally mounted with shield

With a shield, length approx.10 in(250mm), width approx.8 in(200m), folk angled slightly downwards by 15~20 degree so as to reduce the shock of the flowing materials and prevent the improper stock from itself.

In discharge hopper

Max. nozzle length 2.4 in (60mm), so that no build-up occurs which prevents the fork from oscillating.

Incorrect mounting:

- Laterally mounted in filling curtain or under the feed opening.

 The incorrect fork orientation
- Incorrect fork orientation

Broad tine surface is subjected to high load caused by discharging material; malfunction due to residual material.

 The switch will not work normally when the distance of mounting nozzle and barrelis over 2.4"(60mm).

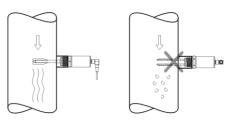
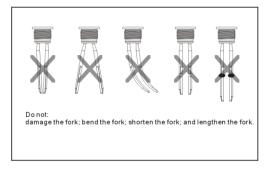
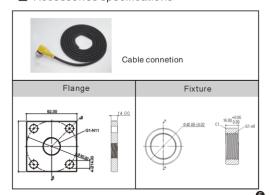


Figure: Mounting of Vr4000 into the pipe. Left one is correct ,but Right



Enclosed by PTFE Tightened by a Not wrested thread seal tape. wrench. by hands.

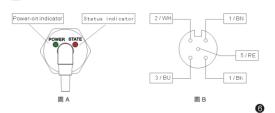
Accessories specifications



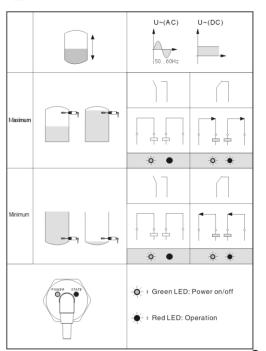
■ Hookup

NPN NPN	BN+ WH NPN BU- BU- BU- BK BK BN+ WH BU- BU- BU- BU- BU- BU- BK BK BN+ BN+ BN+ BU-	NPN/PNP outpi	ut:
PNP	-RE PNP RE	Powerinput	19~60VDC
NO: Wire WH connects	to BU- Nc: Wire WH connects to BN+	Signal output	800mA M ax.
Relay	BN+ RE BK WH BU-	Relay output: Power input Signal output	19~250VAC 19~60VDC 4A/250VAC Max 4A/60VDC Max
Analog Du-VWH		Dual wire 4~20mA output: Triple wire 0~10V output: Power input 24VDC±10%	
	ВК	Load	4~20mA output: 500 \(\text{Max}.\) 0~10 \(\text{output}:\)

■ Mode of connection



Status Indicators



Technical datasheet

Power supply	1960VDC 19250VAC 50/60Hz		
Response time	2 sec. /Covered by medium, 3 sec. / clear		
Ambieind Temperature	-40+70℃		
Storage Temperature	−40+85°C		
Medium Temperature	-40+150℃		
Operating pressure	-1+40bar		
Detected substance	Powder or pellets, size=10mm,density>0.1g/cm ³		
	liquid, viscosity=10000mm2/s, density>0.7g/cm ³		
Mounting	G1-N11"		
Socket	M12×P1.0 adaptor		
Housa material	Stainless steel 304		
Fork material	Stainless steel 304 / Stainless steel 316		
Output	Relay, Load AC250V/4A, DC60V/4A		
	NPN, Load 800mA		
	PNP, Load 800mA		
Electricity	DC 0.25W, AC 1.5W		