

# Force Control Switches

*DynaSwitch® and Cranegard®*



Simple and ultra-reliable passive sensors provide switch contacts that open or close at specified loads.

- Overload protection
- Slack-line detection
- Up to four switches on a single device

**DILLON**  
Force Measurement Equipment

# Cranegard®

## Clamp-on cable overload protection

Clamps on cables for wire rope hoist, elevator and crane overload prevention and slackline detection. Installs in minutes with screwdriver and Allen wrench.

Installation is simplicity itself. Clamp the Cranegard® directly onto a slack hoist or crane wire rope quickly without severing rope or interrupting service. Up to four switches can be furnished. Switch actuates immediately when pre-set load limit is exceeded.

Dillon will set the switches to trigger at the loads you desire, if specified at time of order.



### SPECIFICATIONS NOTES:

1. Basic units can accommodate 1,2,3 or 4 of option B or 1 or 2 of option C switches
2. Ultimate safety factor of all units is 2:1 (1.8:1 for metric capacities)
3. Cable should be IWRC (Independent Wire Rope Core) with as many strands as possible.
4. Wire rope selection for any application for proper safety factor is a customer responsibility.
5. Calibration performed with rope diameter specified at order.

### SPECIFICATIONS

	Capacity lb (kg)	Min. Set Point lb (kg)	Repeatability lb (kg)	Rope Diameter* inches (mm)
<b>CGS-1</b>	2,500 (1250)	100 (50)	±75 (±35)	3/16 to 1/2 (5 to 13)
<b>CGS-2</b>	5,000 (2500)	200 (100)	±150 (±75)	3/8 to 7/8 (10 to 22)
<b>CGS-3</b>	10,000 (5000)	400 (200)	±300 (±150)	7/16 to 7/8 (11 to 22)
<b>CGS-4</b>	20,000 (10000)	800 (400)	±600 (±300)	5/8 to 1 1/4 (16 to 32)

### DIMENSIONS

	Switch Option	Width in (cm)	Height in (cm)	Length in (cm)
<b>CGS-1</b>	1B, 2B	3.6 (9.2)	5.4 (13.7)	11.5 (29.2)
	3B 4B	4.6 (11.8)		
<b>CGS-2</b>	1C	5.0 (12.7)	6.0 (15.2)	
<b>CGS-3</b>	2C	7.3 (18.4)		
<b>CGS-4</b>	1B, 2B	4.5 (11.4)	7.8 (19.7)	
	3B, 3B	5.4 (13.7)		
	1C	5.9 (14.9)		
	2C	8.0 (20.3)		

\* Specify rope diameter when ordering. Other rope diameters can be specified on special order.