



PLUG-N-PLAY



DAISY CHAIN

H ERS

HID Energy Reduction System

GUTH®

LIGHTING FOR DEMANDING ENVIRONMENTS

ENERGY REDU

OVERVIEW

Guth's HID Energy Reduction System (HERS) operates fixtures at half power when a room or warehouse aisle is unoccupied. Passive infrared sensors (PIR), DLT timers and manual switches activate the system. Standard features include:

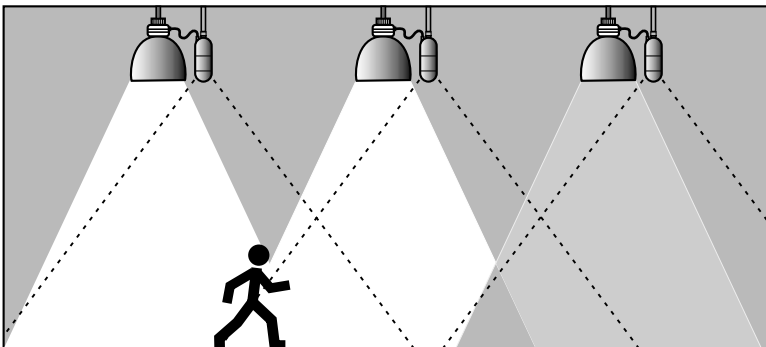
1. Full power lamp operation for 15 minutes at start and once each day to prevent lamp degradation per manufacturer's recommendations
2. Extended ballast life from the low heat of half power operation
3. UL/CUL listing
4. Five year limited warranty
5. Plug-n-Play and Daisy Chain designs

ENERGY SAVINGS

Typical warehouse energy usage can be reduced 20 to 35% depending on operation and aisle set-up. Payback can be as little as two years.

Lamp	Average Watts/Fixtures				Cost/Fixture @ .06/kwk-6000 hrs*		
	Full Pwr	50% Pwr	70/30 Operation	50/50 Operation	Full	70/30	50/50
400 Metal Halide	450	225	292	337	\$162	\$105	\$121
Savings						35%	25%

* 24 hours x 5 days per week



HERS is easy to install and reduces energy cost up to 35%.

PLUG-N-PLAY SYSTEM

Each fixture has a G2 sensor installed through its plug in port. Low voltage wiring and set-up is eliminated. Installed cost can be reduced up to 50%. Energy usage is minimized because every fixture operates independently. Options include:

- A. MYzer-START: further reduces energy cost by:
1. Staggering fixture start-up to reduce utility demand charge
 2. Automatically turns fixture off after a set period of no activity
- B. EXPT: Additional G2 port provides manual low voltage power control

DAISY CHAIN SYSTEM

The design uses low voltage power, telephone connectors and external wiring for operation. PIR motion detectors or DLT timer/contactors operate groups of fixtures at 100% or 50% power. Each fixture includes a dual capacitor and an external G1 power module. Contractor installs and aligns the system.



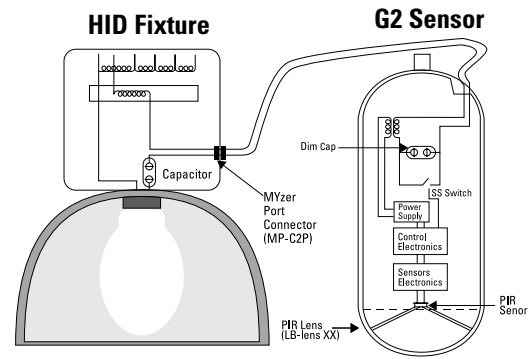
CTION SYSTEM

PLUG-N-PLAY SYSTEM

G2 Sensor Standard Features:

1. Mount G2 independently 6" to 6' from fixture
2. Infrared sensor (PIR) has 3 step sensitivity adjustment
3. Choice of 4 PIR lens optimize coverage
4. Adjustable timer. 1, 2, 4, 8, 32 and 64 minute interval before returning to low power
5. Operational temperature -35° to 65° C

LAT: Laser alignment tool accessory for sensor coverage



MYzer-START Option. Features Include:

1. Dip switches for 15 and 30 min delayed starting. Can reduce demand charge
2. Weekly MH lamp turn off in 24/7 operations. Minimizes violent end of lamp life
3. Delay off setting – turns fixture off after 2, 4 or 8 hours of no activity

EXPT: Low voltage port in G2 for manual on/off or Force LOW control



G1 DAISY CHAIN SYSTEM

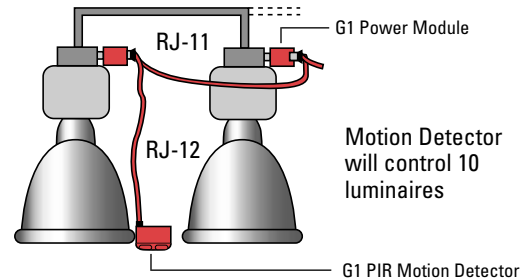
G1 PWR Power Module Features:

1. Fixture prepped to accept one Power Module
2. Operates dual capacitor in fixture
2. Contains an RJ-12 interface telephone port



G1 PIR Motion Detector Features:

1. Controls up to 10 G1 Power Modules
2. 0-100% sensitivity adjustment
3. Adjustable timer: 1, 4, 16 and 64 minutes before returning low power
4. Choice of aisle or circular sensor lens
5. Mounts to fixture reflector
6. Operating temperature: -23° to 55° C

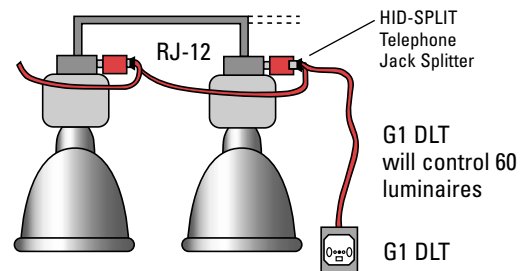


G1 DLT Timer/Contactor Features:

1. Controls from 3 to 60 G1 Power Modules
2. Low power timer
3. High power timer

G1 HID Test Box:

1. Tests and de-bugs G1 Power Module



G1-PIR Motion Detector



G1-DLT



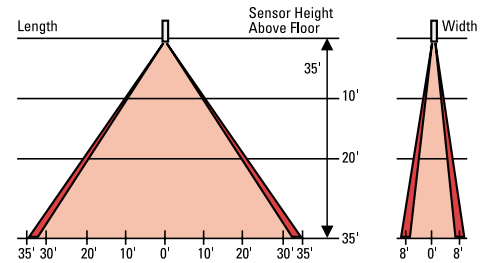
G1-HID Test Box



LENS SENSOR MATRIX FOR G2 AND G1 SYSTEMS

System	Lens Sensor	Use	Typical Sensor Coverage -360°			Sensor Mounting Range
			Sensor Height	Length	Width	
G2	15	Aisle	20'	60'	9'	12' - 20'
G2	10	Aisle	35'	70'	16'	16' - 35'
G2	07	Aisle	50'	70'	16'	25' - 50'
G2	806	Area	30'	48'	36'	12' - 30'
G1	SLens	Aisle	30'	90'	16'	15' - 35'
G1	CLens	Area	30'	100'	100'	15' - 35'

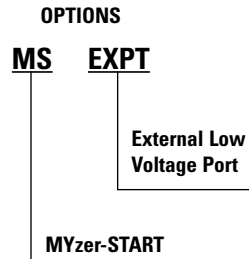
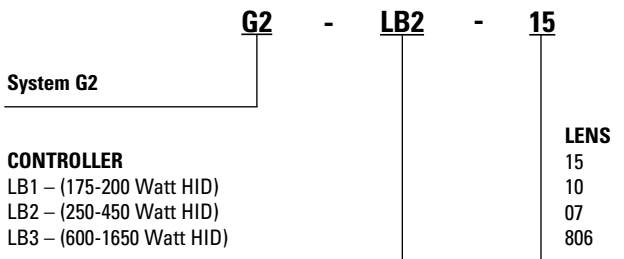
Lens 10



Aisle lens, 16' to 35'(max) mounting height above floor.

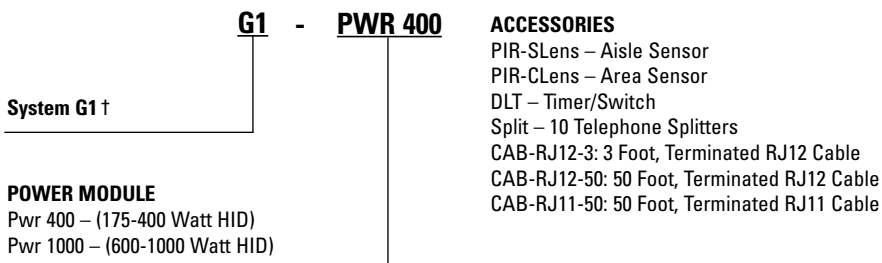
ORDERING INFORMATION

G2 - Plug-n-Play (add to Guth fixture catalogue number)



ACCESSORIES
 LAT- Laser Alignment Tool

G1 Daisy Chain (add to Guth fixture catalogue number)



† Consult factory to determine exact accessory requirements. Fixtures come with dual level capacitors installed and ballast cover prepped for Power Module. Order 1 Power Module per fixture.

Metal Halide Note:

1. Lamp manufacturers state" type E and S type lamps must be turned off for 15 minutes each week to prevent a non-passive failure"
2. Type O rated lamps have no turn-off requirement. An optional pink socket will only accept O rated lamps.