

# gSENS LWG – Length Angle Sensors

## gSENS LG – Length Sensors



## ➤ The Right Sensor for any Application

Hirschmann MCS develops and produces several standard types of gSENS LWG. There is a variety of terms of cable reel size, internal mechanical design, and a number of cable wires leading to the tip of the crane.

### ➤ gSENS LWG 15x

- Sheet metal housing
- Up to 11 logical slip ring poles
- Telescoping length up to 32 meters

### ➤ gSENS LWG 2xx/3xx/5xx

- Die-cast aluminium housing
- Up to 11 logical slip ring poles
- Telescoping length up to 55 meters

### ➤ gSENS LWG 9xx

- Die-cast aluminum housing
- Standardized sensor elements
- High resolution and accuracy
- New cable guiding mechanism
- Simple connection, no need to open the device

### ➤ gSENS LWG 92x





- Especially suited for applications with limited space
- Up to 8 logical slip ring poles
- Telescoping length up to 15 meters

### ➤ gSENS LWG 95x

- Most in-demand geometric sensor for cranes in new and retrofit business
- Up to 8 logical slip ring poles
- Telescoping length up to 34 meters



## ➤ Technical Specifications

Description	gSENS LWG 15x 	gSENS LWG 2xx/3xx/5xx 	gSENS LWG 92x 	gSENS LWG 95x 
Angle range	-90° to +90°	-90° to +90°	-180° to +180°	-180° to +180°
Length range	8-32 meters	15-55 meters	15 meters	34 meters
Output signal	4...20 mA, CANopen	4...20 mA, CANopen	4...20 mA, CANopen	4...20 mA, CANopen
Supply voltage	9...36 V DC	9...36 V DC	Analog: 16...30 V DC CAN: 10...30 V DC	Analog: 16...30 V DC CAN: 10...30 V DC
Safety architecture	Single or redundant	1-channel, 2 channel	1-channel, 2 channel	1-channel, 2 channel
Temperature drift	0,1%/10°K	0,1%/10°K	0,1%/10°K	0,1%/10°K
Linearity (typical) length measurement	< 0,2 % FS	< 0,2 % FS	< 0,1 %	< 0,1 % FS
Hysteresis (typical) length measurement	< 0,1 % FS	< 0,1 % FS	0 % FS	0 % FS
Housing material	Sheet metal	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Connector	M12, customer specific	M12, CANNON, customer specific	M12, M23, customer specific	M12, M23, customer specific
Life cycle	10 <sup>6</sup> cycles	10 <sup>6</sup> cycles	10 <sup>7</sup> cycles	10 <sup>7</sup> cycles
Number of slip rings	0-11	0-11	0-8	0-8
Protection type (IEC60529)	IP 66	IP 66	IP 66/67	IP 66/67
Surface temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Ambient temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C