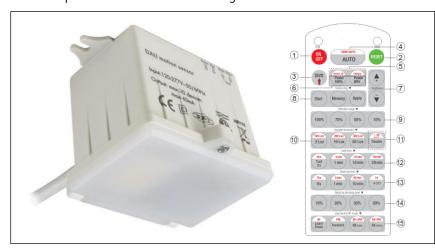# ROBUS®

DAYLIGHT HARVEST SENSOR, 1-10V DIMMING, IP65, SURFACE MOUNT

These multi-function Microwave sensors primary function is to save energy by taking natural light into account and only adding as much additive light as required to attain a set point lux level. Parameters can be set using a 16-channel rotating wheel. Additional functionality is achieved using the optional remote-control programming tool.

The light fittings being controlled require a 1-10VDC driver for Dimming Functionality

Parameters: Detection Sensitivity, Target Light Level, Hold Time, Standby Light Level, Standby Time Before Off
Note: Please see data page 2 for specific parameter settings available using the Microwave Sensor Wheel Settings and the optional Remote-Control Programmer

Applications:
Primarily used in large buildings such as:

- Farm buildings
- Storage areas
- Racking areas
- Warehouses
- Show rooms
- Large garages
- Aircraft hangers
- Bus and coach depots

Construction:

All polycarbonate construction

Features:	Benefits:
IP65 rated	Suitable for use in wet or dusty environments
Mounting Height of 4 – 15m	Provides options for a range of internal height buildings
Microwave Detection Technology	Very sensitive to movement of people and objects such as fork lifts so ensures lighting will be triggered on when required
Sensitivity/Detection Range Adjustment	Provides control of the range of sensing so that lighting is only switched on in the areas required, for example, sensitivity can be set so that movement in a manufacturing area will not switch lighting on in the parts storage areas
Target Light Level/Set Point	The unit can be set to a range of target set point light levels The sensor will only instruct the light fitting to add as much artificial light as is required to attain the set point light level Provided natural light is available, this provides massive energy saving compared to having lighting on full
Hold time	After the last detection, this is the time before the lighting reduces to a background light level. Each time the sensor detects movement, the hold time is reset to the set time
Standby dimmed level	This is a temporary background light level and provides additional energy savings during intervening vacant times without the lighting being turned completely off It also provides a safety lighting level
Standby time before off	This is the time the standby light level is on. At the end of this time, the sensor instructs the light fittings to switch off
Optional Remote-Control Programmer	As well as a range of extended settings this provides single button programming of sensors from ground level without the need to physically access the sensor

ROBUS®
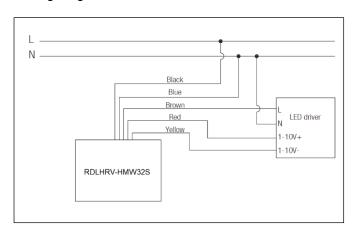
DAYLIGHT HARVEST SENSOR, 1-10V DIMMING, IP65, SURFACE MOUNT

Product Code:	RDLHRV-HMW32S
Maximum Load Incandescent/fluorescent/LED (W):	1,200/ 800/ 800
MIN/MAX Mounting Height (m):	4-15
Detection zone diameter @ Max mounting height (m):	10
Detection Angle (deg):	360
Warranty (yrs):	5
Ingress Protection (IP):	65
Impact Rating (IK):	10
Operating Temperature (˚C):	-20 ≤ Ta ≤ +40
Operating Voltage (Vac):	220-240
Height(mm):	59.3
Width (mm):	81.5
length (mm):	91.5
Box Qty:	1
Weight (kg):	0.2

Settings available using the on-board rotary channel selection wheel

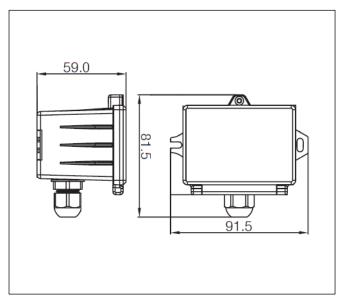| Channel	Detection range	Hold time	Stand-by time	Stand-by dimming level	Daylight threshold
0	100%	5s	10s	10%	Disable
1	100%	1min	5min	10%	50Lux
2	100%	5min	10min	10%	50Lux
3	100%	5min	+∞	10%	75Lux
4	100%	5min	+∞	10%	100Lux
5	100%	5min	+∞	30%	200Lux
6	100%	10min	30min	10%	50Lux
7	100%	10min	+∞	10%	75Lux
8	100%	10min	+∞	10%	100Lux
9	100%	10min	+∞	30%	200Lux
A	100%	20min	1h	10%	100Lux
B	100%	20min	+∞	30%	200Lux
C	100%	30min	+∞	10%	100Lux
D	100%	30min	+∞	30%	200Lux
E	100%	30min	+∞	50%	400Lux
F	100%	5s	10s	10%	100Lux

Wiring Diagram:

Settings available using the HRC-11 Remote Control Programming Tool

Detection sensitivity (%):	10/50/75/100
Daylight threshold (lx):	Disable/2/10/50/100/300/500/ambient
Hold time:	2sec/30sec/1min/5min//10min/15min/20min/30min
Standby level before off (%):	10/20/30/50
Standby time before off:	0sec/10sec/1min/5min/10min/30min/60min/∞
Remote range (m):	12m Max
Memory Function:	Enter single program to memory button, to allow for rapid programming of additional sensors

Standards & Approvals:

Complies with: EN 60669-1, EN 60669-2-1, EN 55014-1, EN 55014-2, EN6100-3-2, EN6100-3-3

Dimensions:

Detection Zone Diagram:

Ceiling mounted detection pattern (m)