

Overdrive & Strobe Controller

Overdrive & Strobe Controller [ILS Series]

Variable levels-up/down voltage converter(6V ~36V)
Compact body enables easy installation in control panels



Compact design overdrive & strobe controller. It is capable of boosting or bucking the voltage from 6V up to a Max. of 36V, allowing for output control from lower light intensities.

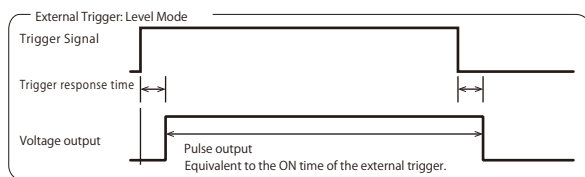
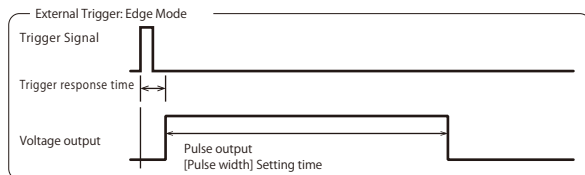


- Minimum output voltage has been increased by 6v from 12v of conventional SAG controllers. It can be controlled from a lower light source.
- The emission time can be set in increments of 1 μs, offering finer control (in edge mode).
- Easy connection with push-in type connectors.

Various Trigger Functions

3 selectable trigger modes. The emission time can be set in 1 μs increments (edge mode).

Trigger Type	Emission timing	Emission Time
Internal Trigger	Emission frequency of 4kHz.	Off (pulse width 0) or 12.5μs
Edge Mode	Emission by external triggered signal.	Pulse width setting time (0μs, 10μs - 999μs)
Level Mode	Emission by external triggered signal.	ON signal input time of external trigger



※A recognition time of at least 10 μs is required for trigger signal detection.

Overdrive Illumination

It is possible to achieve momentary illumination with several times the luminance compared to the constant illumination (steady light) by utilizing a Max.36V output. Ideal for scenes where high brightness is required, especially in inspections of fast-moving objects, where it is necessary to synchronize with camera imaging.



<Continuous Illumination>



<Overdrive Illumination>

Compact Casing Design

◎ Compared to the SAG-30M2-PI overdrive controller with the same control method, the width has been reduced by 37% and the depth by 75%, making it compact and approximately 1/4 the size (excluding the size comparison of the adjustment knob and connector section of the housing).

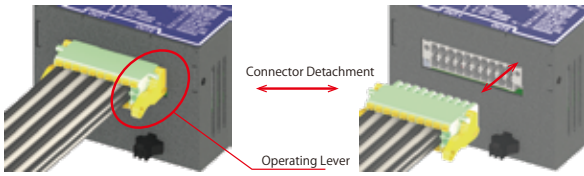


<SAG-30M2-PI>

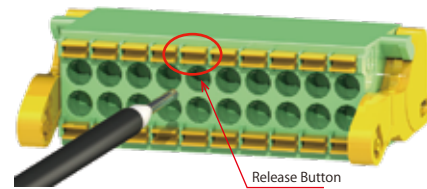


- Line illumination products
- Ring illumination products
- Bar illumination products
- Transmitted/dome illumination products
- Special illumination products
- Kit products
- Controller products
- Dome illumination products

Easy Connection With Push-in Type Connectors.

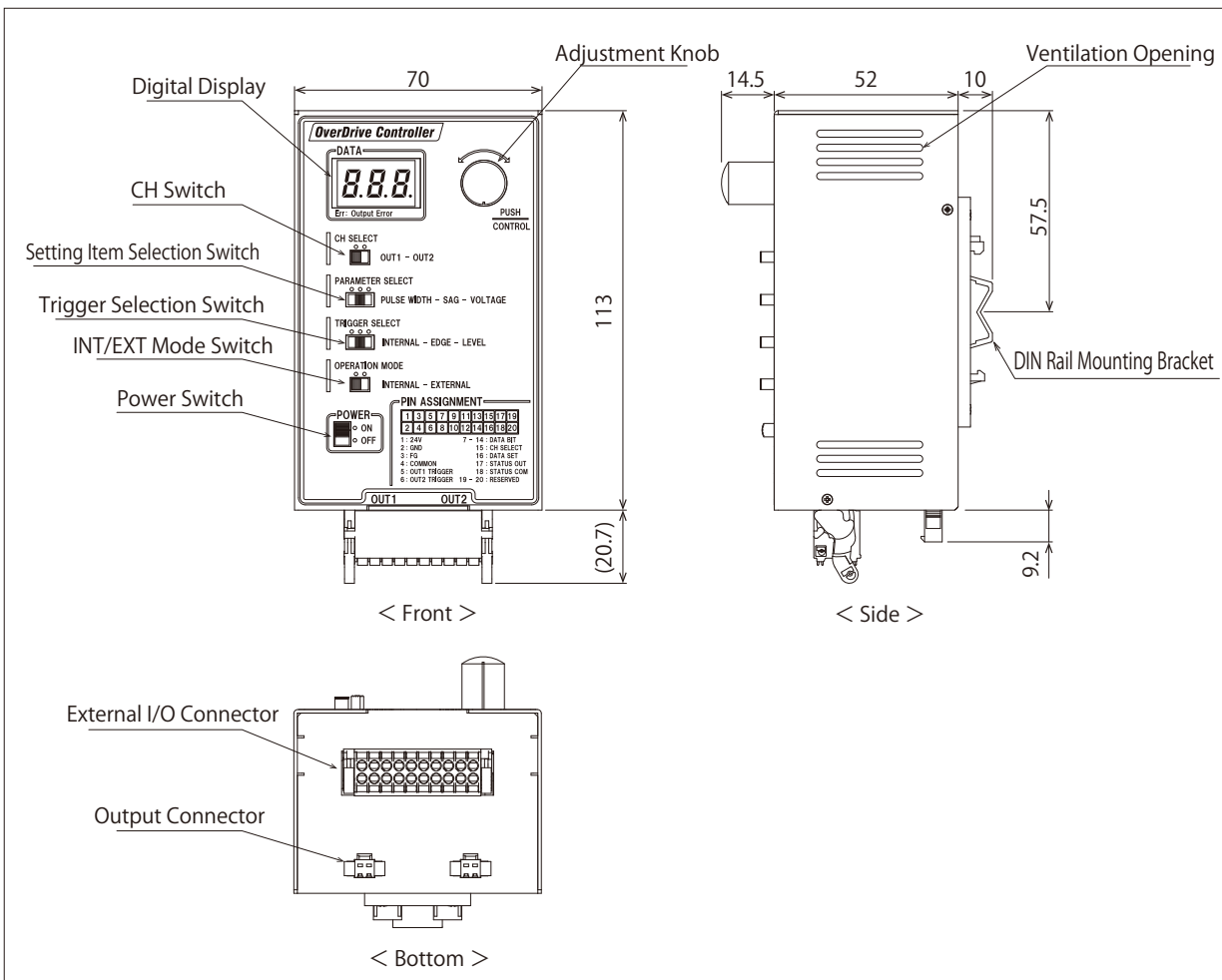


◎ Easy attachment and detachment of the connector
 Connector detachment is made easy with the operating lever on the side of the connector. This allows for easy wiring of the connector and significantly reduces the required space for installation work, even in tight distribution panels and other confined areas.



◎ Easy connection with push-in type connectors.
 Easy connection and disconnection can be achieved by operating the release button. For screw terminal connections, simply insert the wire without the need for button operation.

Model	ILS-40M2-PI
Output Channel	2CH
Connectable Illumination	Max. rated voltage of 12V illumination-Power rating of up to 30W per CH (for each channel, use below 11A peak).
Input power Supply	DC24V±10% · 3.5A Current Consumption (Max) · 40A Surge Current(100μs).
Output voltage upper limit (SAG value)	6-36V (256 levels adjustable)
Output Current	11Ao-p / CH
Pulse Width Setting	Internal trigger: Fixed at 4kHz (12.5μs) External trigger: 0μs, 10μs to 999μs (within 5% duty, 1μs step)
Variable Output Voltage Range	Variable in 256 steps within the range of minimum output (approximately 6V) to the output voltage upper limit (SAG value)
External Trigger Response Time	Approx. 3μs
Variable Output Voltage Responsiveness	6V → 36V: Less than 170ms, 36V → 6V: Approx. 2s (no-load condition)
Internal Control Function	Variable output voltage and pulse width by switch operation
External Control Function	Control via parallel 8-bit interface for variable output voltage (6V to SAG value)
Synchronization Control Function	Synchronization control with external trigger signal
Protection Function	Overcurrent and overvoltage protection, interlock function (Disabling the trigger signal with a pulse duty of 5% or higher)



- Line illumination products
 - IDBB-LSRF
 - IDBC-LSR
 - IDBB-LSRH
 - IDBB-LSRA
 - IDBB-LSRS
 - IDBC-LSRC
 - IDBB-LSRC
 - IDBC-RE
 - IDBB-RE
 - IDBA-RK
 - IQDH-RE
 - IMAR-D_8ch
 - IDR-LA-8ch
 - IDRA-T-8ch
 - IMAR-D
 - IMAR-CT D
 - IHR-LE
 - IHRB · IHRA
 - IDR-F
 - IDR-F33/16
 - IDR
 - IDR-LA
 - IDRA-T
 - IFR · IPR
- Ring illumination products
 - IDBA-HM
 - IDBA-HMS
 - IDBA-HMS-IR
 - IDBA-FD
 - IDBA-LEH2
 - IDBA-LEH
 - IDBA-LE
 - IDBA-SE
 - IDBA-SL
 - IDBA
 - IDBA-Q
 - IFLA · IFLB
- Bar illumination products
 - IDHM
 - IHMA
 - IHMA-V
 - IFPA
 - IFD
 - IFD-IR
 - IHMA-40D
 - IFPA-D
 - IPQC
 - IFHA
 - IDDB-KH · IDDA-KH
 - IDUB
 - IDD
 - IDD-CB
 - IQD · IQDH
 - IQDA-CB
 - IFVA · IFVB
 - IFVA-ST
 - IFV
 - IV-14 · IV-30
 - IHV-20 · IHVE-21
 - IHVA-SP · IHSL-SP
- Dome illumination products
 - IBF
 - IHV-FX
 - RBOX
 - IDBB-CH
 - IDHRA
 - UV-CAN
 - Infrared
 - Infrared
 - IMAR-RGB
 - IDDA-KH-RGB
 - RGB Full-color
 - ISU
 - ISS
- Special illumination products
 - Introduction of Customization
 - High-speed synchronous imaging camera kit products
 - ISC-24
 - Image capture evaluation kit products
- Other products
 - IDMU
 - ILP
 - ILC
 - ILV
 - ILS
 - IPPA_G · IRPA_G
 - IPSA · IPPA
 - IDGC
 - IDPA
 - IDCA
 - IMC
 - IWDV-24
 - IWDV(S)-48
 - ISC
 - IJS
 - IJS
 - IJS-30M2-TP/SS
 - ILS-40M2-PI/SS
- Other illumination products
 - SAG
 - SLLUB
 - LLUB
 - IFC