Quick Guide PA L 1-R IO-Link M12

IP 65 | 96dB

PA (L) 1-R 24DC IO-LINK 23383808099
RGB 7035



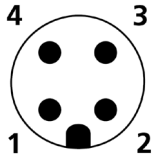
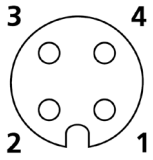
Replacement screw for UL devices (Lens lock)

DE	**Spannungsführende Geräte und freiliegende Anschlussleitungen können Stromschläge erzeugen und schwere Unfälle verursachen.** Arbeiten an elektrischen Anschlüssen dürfen nur elektrotechnisch geschulte und autorisierte Fachkräfte durchführen.
EN	**Live equipment and exposed connecting cables can generate electric shocks and cause serious accidents.** Work on electrical connections may only be carried out by electrotechnical trained and authorised specialists.
FR	**Les appareils sous tension et les câbles de raccordement exposés peuvent provoquer des chocs électriques et entraîner des accidents graves.** Seuls des spécialistes formés en électrotechnique et autorisés peuvent effectuer des travaux sur les raccordements électriques.
IT	**Le apparecchiature sotto tensione e i cavi di collegamento esposti possono generare scosse elettriche e causare gravi incidenti.** Gli interventi sui collegamenti elettrici devono essere eseguiti esclusivamente da personale elettrotecnico specializzato e autorizzato.
RU	**Находящееся под напряжением оборудование и оголенные соединительные кабели могут вызвать поражение электрическим током и стать причиной серьезных аварий.** Работы с электрическими соединениями должны выполняться только специалистами, прошедшими электротехническое обучение и имеющими соответствующий допуск.
PT	**Equipamentos energizados e cabos de conexão expostos podem gerar choques elétricos e causar acidentes graves.** O trabalho em conexões elétricas só pode ser realizado por especialistas eletrotécnicos treinados e autorizados.

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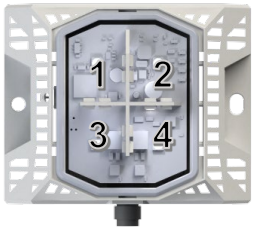
Installation

Pin	Signal	Designation	Male (Device)	Female (Master)
1	L +	Power supply (+)		
2	DIO	Digital Input/Output (not neccessary)		
3	L -	Power supply (-)		
4	C/Q	Communication/Quality	A-coded according to IEC 61076-2-101	

Settings

Light

The light settings allow full customization of color (including RGBW values), brightness (10–100%), and light patterns such as steady, blinking, flashing, rotating, and custom modes, adaptable per segment for maximum flexibility.



Segment control is only available in
Light Segment Mode

Configurable via IODD: color, patterns, modes, and 4 LED segments for custom colors. For example:



Tone

The tone settings allow configuration of volume levels, including a maximum of 96 dB with three adjustable reductions (-7 dB, -13 dB, -20 dB), and support for customizable sound patterns to suit different application needs.

IO-Link Revision	1.1.4
Bitrate	COM2 38.4 kBps
Min. Cycle Time	2.3ms

SIO Mode	No
Block parameter	Yes
Data Storage	Yes

IODD

Parameter list

Index	Name	Rights	Description
101	Light Operating Mode	Readable / Writable	Selects the operating mode of the light stage
102	Tone Operating Mode	Readable / Writable	Selects the operating mode of the tone stage
121	Batch Code	Write Only	Helper parameter for writing the batch code into the serial number field (write once only)
201	Light Run Mode Pattern	Readable / Writable	Selects the light pattern in run mode
202	Light Run Mode Color	Readable / Writable	Selects the light color in run mode
203	Light Run Mode Brightness	Readable / Writable	Sets the light brightness in run mode as a percentage
211	Light Rotating Direction	Readable / Writable	Selects the rotation direction (clockwise / counterclockwise) of the rotating beacon
212	Light Rotating Speed	Readable / Writable	Sets the rotating speed of the beacon in RPM
213	Light Rotating Color	Readable / Writable	Selects the color of the rotating beacon
214	Light Beacon Type	Readable / Writable	Selects the type of rotating beacon
215	Light Rotating Brightness	Readable / Writable	Sets the brightness of the rotating beacon as a percentage
221	Light Custom Pattern	Readable / Writable	Selects between "Continuous" and "Blink/Flash" custom light patterns
222	Light Custom On Time 1	Readable / Writable	Sets custom on-time 1 for the light in milliseconds
223	Light Custom Off Time 1	Readable / Writable	Sets custom off-time 1 for the light in milliseconds
224	Light Custom On Time 2	Readable / Writable	Sets custom on-time 2 for the light in milliseconds
225	Light Custom Off Time 2	Readable / Writable	Sets custom off-time 2 for the light in milliseconds
226	Light Custom On Time 3	Readable / Writable	Sets custom on-time 3 for the light in milliseconds
227	Light Custom Off Time 3	Readable / Writable	Sets custom off-time 3 for the light in milliseconds
228	Light Custom Cycle Limit	Readable / Writable	Number of repeated light cycles before pause/stop
231	Light Global Timeout	Readable / Writable	Global timeout for any light function (1–65535s allowed, 0 = no timeout)
251	Light Custom Value Red	Readable / Writable	Sets the red intensity value (0–255)
252	Light Custom Value Green	Readable / Writable	Sets the green intensity value (0–255)
253	Light Custom Value Blue	Readable / Writable	Sets the blue intensity value (0–255)
254	Light Custom Value White	Readable / Writable	Sets the white intensity value (0–255)
271	Light Segment 1 Pattern	Readable / Writable	Selects the light pattern for segment 1
272	Light Segment 1 Color	Readable / Writable	Selects the light color for segment 1
273	Light Segment 1 Brightness	Readable / Writable	Sets the brightness of segment 1 as a percentage
274	Light Segment 2 Pattern	Readable / Writable	Selects the light pattern for segment 2
275	Light Segment 2 Color	Readable / Writable	Selects the light color for segment 2
276	Light Segment 2 Brightness	Readable / Writable	Sets the brightness of segment 2 as a percentage
277	Light Segment 3 Pattern	Readable / Writable	Selects the light pattern for segment 3
278	Light Segment 3 Color	Readable / Writable	Selects the light color for segment 3
279	Light Segment 3 Brightness	Readable / Writable	Sets the brightness of segment 3 as a percentage
280	Light Segment 4 Pattern	Readable / Writable	Selects the light pattern for segment 4
281	Light Segment 4 Color	Readable / Writable	Selects the light color for segment 4
282	Light Segment 4 Brightness	Readable / Writable	Sets the brightness of segment 4 as a percentage
301	Tone Volume	Readable / Writable	Sets the volume of the tone stage as a percentage
302	Tone Global Timeout	Readable / Writable	Global timeout for any tone function (1–65535s allowed, 0 = no timeout)
303	Tone Continuous	Readable / Writable	Selects one of the built-in continuous tones
304	Tone Alternating	Readable / Writable	Selects one of the built-in alternating tones
305	Tone Intermittent	Readable / Writable	Selects one of the built-in intermittent tones
306	Tone Sweep	Readable / Writable	Selects one of the built-in sweep tones
311	Tone Custom Frequency 1	Readable / Writable	Sets a custom frequency 1 in Hz
312	Tone Custom Frequency 2	Readable / Writable	Sets a custom frequency 2 in Hz
313	Tone Custom On Time 1	Readable / Writable	Sets the on-time of frequency 1 in milliseconds
314	Tone Custom On Time 2	Readable / Writable	Sets the on-time of frequency 2 in milliseconds
315	Tone Custom Off Time 1	Readable / Writable	Sets the off-time of frequency 1 in milliseconds
316	Tone Custom Off Time 2	Readable / Writable	Sets the off-time of frequency 2 in milliseconds
317	Tone Custom Sweep Time 1 to 2	Readable / Writable	Sets the sweep time from frequency 1 to 2 in milliseconds
318	Tone Custom Sweep Time 2 to 1	Readable / Writable	Sets the sweep time from frequency 2 to 1 in milliseconds
319	Tone Custom Hold Time	Readable / Writable	Hold time for sweep, alternating or interrupted cycles in milliseconds
320	Tone Custom Break Loop After Flag	Readable / Writable	Time after which a cycle breaks, in milliseconds
321	Tone Custom Cycles Limit	Readable / Writable	Number of tone cycles before pause/hold/stop (in seconds)
322	Tone Custom Hold Forever Flag	Readable / Writable	Flag to hold frequency forever after sweep
323	Tone Custom Stop Forever Flag	Readable / Writable	Flag to stop frequency forever after sweep

System commands

Parameter	Index	Access	Byte / Length	Value
System Command	02	Write Only	1	Reset Factory Settings

Operating time commands

Parameter	Index	Access	Byte / Length
Operation Minutes Standby	110	Read Only	standby operation time counter in minutes
Operation Minutes Light	111	Read Only	light operation time counter in minutes
Operation Minutes Tone	112	Read Only	tone operation time counter in minutes

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