

- IO-Link Version 1.1.3
- Transfer rate:COM2 (38.4 kBaud)
- IO-Link port: Class A
- Pluggable I/O terminal blocks



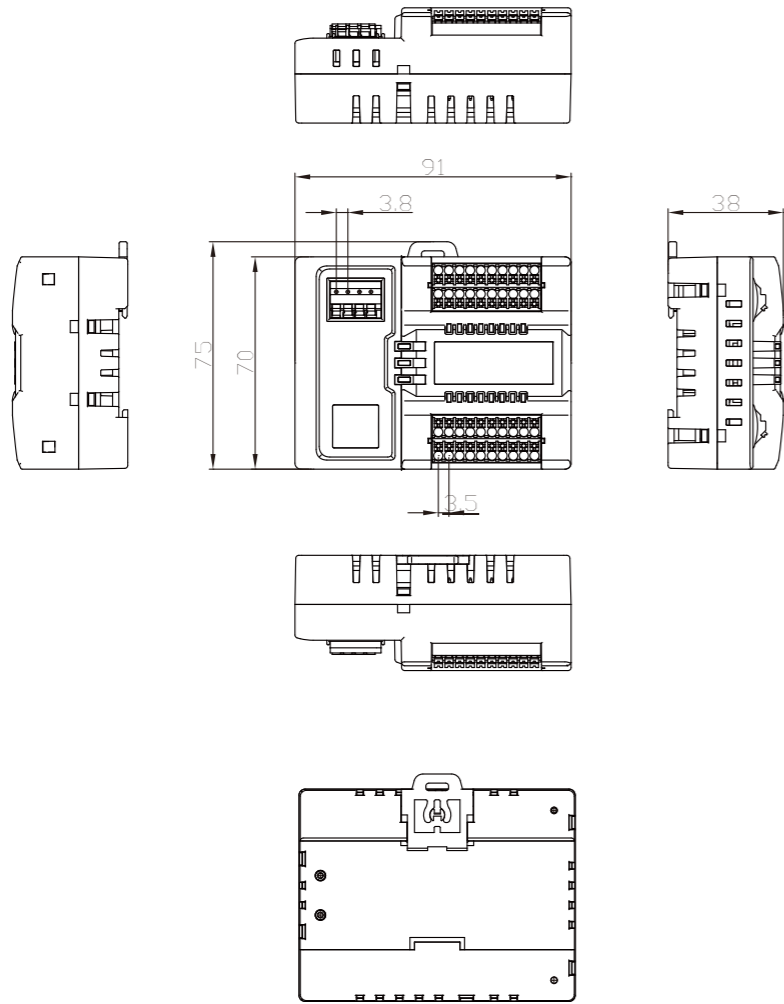
Ordering data						
Product Model	LKHA-1600P-QC	LKHA-1600P-TC	LKHA-0808P-QC	LKHA-0808P-TC	LKHA-0016P-QC	LKHA-0016P-TC
Description	16DI,PNP,interface 4-PIN M12	16DI,PNP,interface 4-Pos terminals	8DI/8DO,PNP,interface 4-PIN M12	8DI/8DO,PNP,interface 4-Pos terminals	16DO,PNP,interface 4-PIN M12	16DO,PNP,interface 4-Pos terminals
Product Model	LKHA-1600N-QC	LKHA-1600N-TC	LKHA-0808N-QC	LKHA-0808N-TC	LKHA-0016N-QC	LKHA-0016N-TC
Description	16DI,NPN,interface 4-PIN M12	16DI,NPN,interface 4-Pos terminals	8DI/8DO,NPN,interface 4-PIN M12	8DI/8DO,NPN,interface 4-Pos terminals	16DO,NPN,interface 4-PIN M12	16DO,NPN,interface 4-Pos terminals
Electrical connection						
IO-Link	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals
Power supply	Included in IO-Link interface		Included in IO-Link interface			
Input/Output	2x 10 position I/O terminal blocks, Push-in spring connection, Pluggable		2x 10 position I/O terminal blocks, Push-in spring connection, Pluggable			
Electrical data						
Input	16	16	8	8	—	—
Input supply current	Max 200 mA per channel, Sum 1.6 A		Max 200 mA per channel, Sum 1.6 A		—	—
Input delay	0.8 ms, 1.6 ms, 3.2 ms or 20 ms, Parameterizable configuration		0.8 ms, 1.6 ms, 3.2 ms or 20 ms, Parameterizable configuration		—	—
Output	-	-	8	8	16	16
Output current	-	-	Max 500 mA per channe, Sum 2 A			
Output type	-	-	Lamps, solenoidvalve, etc..			
Output frequency	-	-	Resistive load 100 Hz, Inductive load 5 Hz			
Diagnostics						
Communication status	LED indication, Communication message		LED indication, Communication message			
Voltage detection	LED indication		LED indication			
Short-circuit & Overload	LED indication		LED indication			
General data						
Protection Class	IP20		IP20			
Temperature	Operating -25 ... +70 °C, Storage -40 ... +85 °C		Operating -25 ... +70 °C, Storage -40 ... +85 °C			
Dimensions (W*H*D)	91 mm x 70 mm x 38 mm		91 mm x 70 mm x 38 mm			

- IO-Link Version 1.1.3
- Transfer rate:COM2 (38.4 kBaud)
- IO-Link port: Class A
- Pluggable I/O and Aux-plugs(24V and 0V) terminal blocks



Ordering data						
Product Model	LKHA-1600P-QA	LKHA-1600P-TA	LKHA-0808P-QA	LKHA-0808P-TA	LKHA-0016P-QA	LKHA-0016P-TA
Description	16DI,PNP,interface 4-PIN M12	16DI,PNP,interface 4-Pos terminals	8DI/8DO,PNP,interface 4-PIN M12	8DI/8DO,PNP,interface 4-Pos terminals	16DO,PNP,interface 4-PIN M12	16DO,PNP,interface 4-Pos terminals
Product Model	LKHA-1600N-QA	LKHA-1600N-TA	LKHA-0808N-QA	LKHA-0808N-TA	LKHA-0016N-QA	LKHA-0016N-TA
Description	16D,NPN,interface 4-PIN M12	16D,NPN,interface 4-Pos terminals	8DI/8DO,NPN,interface 4-PIN M12	8DI/8DO,NPN,interface 4-Pos terminals	16DO,NPN,interface 4-PIN M12	16DO,NPN,interface 4-Pos terminals
Electrical connection						
IO-Link	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals	1xM12 A-CODE 4-PIN,Male	1x4-Pos terminals
Power supply	Included in IO-Link interface		Included in IO-Link interface			
Input/Output	2x 10 position I/O terminal blocks+2x10 position Aux-plugs (24V and 0V) terminal blocks,Push-in spring connection,Pluggable		2x 10 position I/O terminal blocks+2x10 position Aux-plugs (24V and 0V) terminal blocks,Push-in spring connection,Pluggable			
Electrical data						
Input	16	16	8	8	—	—
Input supply current	Max 200 mA per channel,Sum 1.6 A		Max 200 mA per channel,Sum 1.6 A		—	—
Input delay	0.8 ms,1.6 ms,3.2 ms or 20 ms, Parameterizable configuration		0.8 ms,1.6 ms,3.2 ms or 20 ms, Parameterizable configuration		—	—
Output	-	-	8	8	16	16
Output current	-	-	Max 500 mA per channel ,Sum 2 A			
Output type	-	-	Lamps, solenoidvalve, etc..			
Output frequency	-	-	Resistive load 100 Hz, Inductive load 5 Hz			
Diagnostics						
Communication status	LED indication, Communication message		LED indication, Communication message			
Voltage detection	LED indication		LED indication			
Short-circuit & Overload	LED indication		LED indication			
General data						
Protection Class	IP20		IP20			
Temperature	Operating -25 ... +70 °C, Storage -40 ... +85 °C		Operating -25 ... +70 °C, Storage -40 ... +85 °C			
Dimensions (W*H*D)	91 mm x 70 mm x 38 mm		91 mm x 70 mm x 38 mm			

Dimension drawing and terminal definition-PNP



1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA-0808P-TC

2L	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	M	
No.	1	2	3	4	5	6	7	8	9	10

1 2 3 4

1 - 1L 24V+(BN)
2 - nc
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA1600P-TA

1L	i17	i18	i19	i20	i21	i22	i23	i24	M	
No.	21	22	23	24	25	26	27	28	29	30

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	31	32	33	34	35	36	37	38	39	40

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA-0808P-TA

2L	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	M	
No.	1	2	3	4	5	6	7	8	9	10

M	M	M	M	M	M	M	M	M	M	
No.	21	22	23	24	25	26	27	28	29	30

M	M	M	M	M	M	M	M	M	M	
No.	31	32	33	34	35	36	37	38	39	40

4 1 3 2

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA0016P-QC

1L	i17	i18	i19	i20	i21	i22	i23	i24	M	
No.	11	12	13	14	15	16	17	18	19	20

4 1 3 2

1 - 1L 24V+(BN)
2 - nc
3 - 1M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA1600P-QC

1L	i17	i18	i19	i20	i21	i22	i23	i24	M	
No.	11	12	13	14	15	16	17	18	19	20

4 1 3 2

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

M	M	M	M	M	M	M	M	M	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA0016P-QA

2L	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	M	
No.	21	22	23	24	25	26	27	28	29	30

M	M	M	M	M	M	M	M	M	M	
No.	31	32	33	34	35	36	37	38	39	40

4 1 3 2

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA-0808P-QC

2L	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	M	
No.	1	2	3	4	5	6	7	8	9	10

4 1 3 2

1 - 1L 24V+(BN)
2 - nc
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA1600P-QA

1L	i17	i18	i19	i20	i21	i22	i23	i24	M	
No.	11	12	13	14	15	16	17	18	19	20

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	31	32	33	34	35	36	37	38	39	40

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA0016P-TC

1L	i17	i18	i19	i20	i21	i22	i23	i24	M	
No.	11	12	13	14	15	16	17	18	19	20

4 1 3 2

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA-0808P-QA

2L	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	M	
No.	1	2	3	4	5	6	7	8	9	10

M	M	M	M	M	M	M	M	M	M	
No.	21	22	23	24	25	26	27	28	29	30

M	M	M	M	M	M	M	M	M	M	
No.	31	32	33	34	35	36	37	38	39	40

1 2 3 4

1 - 1L 24V+(BN)
2 - nc
3 - M GND(BU)
4 - C/Q(BK)

1L	i1	i2	i3	i4	i5	i6	i7	i8	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA1600P-TC

1L	i9	i10	i11	i12	i13	i14	i15	i16	M	
No.	11	12	13	14	15	16	17	18	19	20

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

M	M	M	M	M	M	M	M	M	M	
No.	1	2	3	4	5	6	7	8	9	10

LKHA0016P-TA

2L	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	M	
No.	21	22	23	24	25	26	27	28	29	30

M	M	M	M	M	M	M	M	M	M	
No.	31	32	33	34	35	36	37	38	39	40

Dimension drawing and terminal definition-NPN

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

LKHA-0808N-QC

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L i9 i10 i11 i12 i13 i14 i15 i16 M

LKHA-1600N-QC

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 M

LKHA-0016N-QC

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L 1L 1L 1L 1L M M M M M

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

LKHA-0808N-QA

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L 1L 1L 1L 1L M M M M M

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 1L i9 i10 i11 i12 i13 i14 i15 i16 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 1L 1L 1L 1L 1L M M M M M

LKHA-1600N-QA

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

No. 1 2 3 4 5 6 7 8 9 10
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 2L Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

LKHA-0016N-QA

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

LKHA-0808N-TC

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L i9 i10 i11 i12 i13 i14 i15 i16 M

LKHA-1600N-TC

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 1 2 3 4 5 6 7 8 9 10
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 M

LKHA-0016N-TC

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L 1L 1L 1L 1L M M M M M

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

LKHA-0808N-TA

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 1L 1L 1L 1L 1L M M M M M

No. 1 2 3 4 5 6 7 8 9 10
Definition 1L i1 i2 i3 i4 i5 i6 i7 i8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 1L i9 i10 i11 i12 i13 i14 i15 i16 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 1L 1L 1L 1L 1L M M M M M

LKHA-1600N-TA

1 2 3 4

1 - 1L 24V+(BN)
2 - 2L 24V+ (WH)
3 - M GND(BU)
4 - C/Q(BK)

No. 11 12 13 14 15 16 17 18 19 20
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

No. 1 2 3 4 5 6 7 8 9 10
Definition 2L Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 M

No. 21 22 23 24 25 26 27 28 29 30
Definition 2L Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 M

No. 31 32 33 34 35 36 37 38 39 40
Definition 2L 2L 2L 2L 2L 2L 2L 2L 2L

LKHA-0016N-TA