Certificate of Compliance

Certificate Number:

UL-US-L189727-111-61208991-10

Report Reference:

E189727-19980216

Issue Date:

2024-11-21

Issued to:

wenglor sensoric GmbH
wenglor Strasse 3 Tettnang 88069
Germany

This certificate confirms that representative samples of:
NRKH - Proximity Switches

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 508, 18th Ed., Issue Date: 2018-03-30, Revision Date: 2021-07-08

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L189727-111-61208991-10
Report reference E189727-19980216
Date 2024-11-21

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
AB-0003	Connection equipments
AB-0003-1	Connection boxes for scanners
AB-6700	Connection equipments
AB-BLU01	Connection equipments
AB-USB01	Connection equipments
AW02	Analog evaluation units
B, followed by K, L, M, R, S, V, followed by C, N, S, 3, 4, followed by 0, P, G, followed by A, C, H, I, L, M, or S, followed by one digit, followed by A, B, I, R, U, W, followed by two digits, followed by additional suffixes.	Image processing products
B, C, followed by NN, B1, B2, B3, 50, 60, 5N, 5P, 5T, 5S, 5M, 5L, SL, SH followed by C, E, H, L, K, M, P, R, S followed by three digits, maybe followed by additional suffixes.	Image processing products
BD25BD9V01	Connection equipments
BD25SD25V02	Connection equipments
BD9BD9V01	Connection equipments
BG2SG2V1	Connecting cables for connection boxes
BG2V1-N	Connection equipments
BG7SG2V1	Connecting cables for connection boxes
BG7SG7V1	Connecting cables for connection boxes
BG7V1P-N	Connection equipments
BG88SG88V2	Connection equipments
BG8SG8V1	Connecting cables for connection boxes
BG8V1P-N	Connection equipments
BS30Vxxx (BS=vision sensor, 30=dimension of description, xxx=number representing the software version number BS40Vxxx).	Vision sensors
BVCxxx (BVC=vsion control unit, xxx=pro number).	Wenglor computers
BVK001 (BVK=color dikital camera, 001=pro number).	Color digital cameras
BW2SG2V1	Connecting cables for connection boxes
BW7SG7V1	Connecting cables for connection boxes
FISZ-RS232	Connection equipments
FW, followed by 05, 06, 07, 08, 09, 10 or 11, followed by WH, RD, BU, GN, IR, UV or YE, etc. (color of the light), may be followed by suffixes.	Photoelectronic sensors, lamps
I, followed by NN, FB, HS, PT, 12, 08, 18, 30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, EB, EF, EM, ED, NR, NT, 50, or 5N, R2, R3, R5 or R8, followed by A, D, F, G, H, N, S or T, followed by three digits, maybe followed by additional suffixes.	Proximity switches

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I or K, followed by A, N, G or S, may be followed by B, E, G, H, I, J, L, M, O, P, Q, R, U, W or X, followed by S, may be followed by 008, 010, 015, 020, 025, 030, 040, 045, 050, 060, 070, 080, 100, 120, 130, 150, 200, 250, 300 or 350 or followed by digits, followed by B, C, D, E, N, Q, R, S or T, followed by A, E, K, M or T, followed by any two digits, followed by A, B, K, M, N, P, Q, S, T, U, V, X or Z, followed by A, B, C, D, G or I, may be followed by additional suffixes	Proximity switches
L followed by, BA, BB, BD, BL, BO, B9, FD, MR, MD, ML, followed by I, R, W, X, followed by additional suffixes.	Illumination
MLSL101	Photoelectronic sensors
MLSL102	Photoelectronic sensors
MLSL103	Photoelectronic sensors
MLSL104	Photoelectronic sensors
MLSL121	Photoelectronic sensors
MLSL122	Photoelectronic sensors
MLSL123	Photoelectronic sensors
MLSL124	Photoelectronic sensors
MLSL131	Photoelectronic sensors
MLSL132	Photoelectronic sensors
MLSL133	Photoelectronic sensors
MLSL134	Photoelectronic sensors
MLSL225	Photoelectronic sensors
MLSL226	Photoelectronic sensors
MLSL235	Photoelectronic sensors
MLSL236	Photoelectronic sensors
MLSL245	Photoelectronic sensors
MLSL246	Photoelectronic sensors
MLSL255	Photoelectronic sensors
MLSL256	Photoelectronic sensors
MLSL275	Photoelectronic sensors
MLSL276	Photoelectronic sensors
MLWL101	Photoelectronic sensors
MLWL102	Photoelectronic sensors
MLWL103	Photoelectronic sensors
MLWL104	Photoelectronic sensors
MLWL105	Photoelectronic sensors
MLWL121	Photoelectronic sensors
MLWL122	Photoelectronic sensors
MLWL123	Photoelectronic sensors
MLWL124	Photoelectronic sensors
MLWL125	Photoelectronic sensors
MLWL131	Photoelectronic sensors
MLWL132	Photoelectronic sensors
MLWL133	Photoelectronic sensors
MLWL134	Photoelectronic sensors
MLWL135	Photoelectronic sensors

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MLWL141	Photoelectronic sensors
MLWL142	Photoelectronic sensors
MLWL143	Photoelectronic sensors
MLWL144	Photoelectronic sensors
MLWL145	Photoelectronic sensors
MLWL151	Photoelectronic sensors
MLWL152	Photoelectronic sensors
MLWL153	Photoelectronic sensors
MLWL154	Photoelectronic sensors
MLWL155	Photoelectronic sensors
MLWL171	Photoelectronic sensors
MLWL172	Photoelectronic sensors
MLWL173	Photoelectronic sensors
MLWL174	Photoelectronic sensors
MLWL175	Photoelectronic sensors
MLWL201	Photoelectronic sensors
MLWL202	Photoelectronic sensors
MLWL203	Photoelectronic sensors
MLWL204	Photoelectronic sensors
MLWL221	Photoelectronic sensors
MLWL222	Photoelectronic sensors
MLWL223	Photoelectronic sensors
MLWL224	Photoelectronic sensors
MLWL225	Photoelectronic sensors
MLWL231	Photoelectronic sensors
MLWL232	Photoelectronic sensors
MLWL233	Photoelectronic sensors
MLWL234	Photoelectronic sensors
MLWL235	Photoelectronic sensors
MLWL241	Photoelectronic sensors
MLWL242	Photoelectronic sensors
MLWL243	Photoelectronic sensors
MLWL244	Photoelectronic sensors
MLWL245	Photoelectronic sensors
MLWL251	Photoelectronic sensors
MLWL252	Photoelectronic sensors
MLWL253	Photoelectronic sensors
MLWL254	Photoelectronic sensors
MLWL255	Photoelectronic sensors
MLWL271	Photoelectronic sensors
MLWL272	Photoelectronic sensors
MLWL273	Photoelectronic sensors
MLWL274	Photoelectronic sensors
MLWL275	Photoelectronic sensors
Models starts maybe with O followed by A, A1, A2, A42, A57, C, D, E, E1, F, G, H, H1, J, K, K1, L, L1, O1, R, S, S1, T, T1, U, V, W, X, X1, Y, Y1, Y2 or Z, followed by A, B,	Photoelectronic sensors

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C, D, DK, E, EB, EI, F, FL, FK, G, H, K, II, L, M, N, O, P, Q, R, S, T, U, TA, V, W, WK, or X, followed by S, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 16, 22, 24, 25, 33, 35, 40, 44, 50, 55, 60, 66, 70, 77, 80, 83, 86, 87, 88, 89, 95, 96, 98, 99, or followed by other digits, may be followed by A, B, C, D, E, F, G, H, I, K, L, M, N, O, P, Q, R, T, U, V, W, X or Z, may be followed by A, B, C, D, E, F, G, H, I, S, T, V, X or Y, or followed by four digits, may be followed by A, B, C, D, F, H, S, T, V, or X, may be followed by additional suffixes.	
OPT, followed by 24, 87, 89, 104, 110, 114, 123, 144, 162, 164, 167 or followed by other digits.	Photoelectronic sensors
OPT, followed by 70, may be followed by N or S.	Photoelectronic sensors
OPT70N	Connection equipments
OPT70S	Connection equipments
OPT70S+	Connection equipments
P, followed by, NN,, FB, HS, PT, 12, 08, 18, 30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, 2K, 2P, 3E, 3P, EB, EF, EM, ED, 50, 5N, NB, followed by, A, C, D, E, F, G, H, J, K, L, M, P, R, T, S, W, X, Y, followed by, additional suffixes.	Proximity switches
PNBC001, PNBC002, PNBC003, PNBC004, PNBC005, PNBC006, PNBC007 and PNBC008	Photoelectronic sensors
S23	Connection equipments
S232W3	Connection equipments
S27	Connection equipments
S29	Connection equipments
S35G	Connection equipments
S35W	Connection equipments
S49	Connection equipments
S56	Connection equipments
S60	Connection equipments
S61	Connection equipments
S80	Connection equipments
S80W	Connection equipments
S88	Connection equipments
S88W	Connection equipments
T followed by I, followed by F, followed by three numbers, followed by A, B, C, D, E, F, G, H, I, M, N, P, U, V, X, followed by four numbers, maybe followed by additional suffixes.	Temperature measurement sensors
T followed by NN, FB, HS, PT, 12, 08,18,30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, EB, EF, EM, ED, 50 or 5N, followed by 0, followed by three digits, maybe followed by additional suffixes.	Temperature measurement sensors
U followed by NN,, FB, HS, PT, 12, 08,18,30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 2G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, EB, EF, EM, ED, 50 or 5N, followed by T, Y,	Ultrasonic sensors

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followed by three digits, maybe followed by additional suffixes.	
U, followed by R or M, followed by D, F or S, followed by three numbers, followed by A, B, C, D, E, F, G, H, I, M, N, O, P, U, V or X, followed by one digit, followed by two numbers	Ultrasonic sensors
Z, followed by 60, VZ, followed by F, followed by additional suffixes.	Illumination
ZF, followed by D, F, K, L, R or S, followed by B, G, I, U, R or W, followed by two digits, followed by -, followed by two digits.	Illumination
ZKA100	Photoelectronic sensors

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Certificate of Compliance

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UL-CA-L189727-311-61208991-11

Report Reference:

E189727-19980216

Issue Date:

2024-11-21

Issued to:

wenglor sensoric GmbH
wenglor Strasse 3 Tettnang 88069
Germany

This certificate confirms that representative samples of:

NRKH7 - Proximity Switches Certified for Canada

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

CSA C22.2 NO. 14-18, 13th Ed., Issue Date: 2018-03-01

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Model	Product Description
AB-0003	Connection equipments
AB-0003-1	Connection boxes for scanners
AB-6700	Connection equipments
AB-BLU01	Connection equipments
AB-USB01	Connection equipments
AW02	Analog evaluation units
B, followed by K, L, M, R, S, V, followed by C, N, S, 3, 4, followed by 0, P, G, followed by A, C, H, I, L, M, or S, followed by one digit, followed by A, B, I, R, U, W, followed by two digits, followed by additional suffixes.	Image processing products
B, C, followed by NN, B1, B2, B3, 50, 60, 5N, 5P, 5T, 5S, 5M, 5L, SL, SH followed by C, E, H, L, K, M, P, R, S followed by three digits, maybe followed by additional suffixes.	Image processing products
BD25BD9V01	Connection equipments
BD25SD25V02	Connection equipments
BD9BD9V01	Connection equipments
BG2SG2V1	Connecting cables for connection boxes
BG2V1-N	Connection equipments
BG7SG2V1	Connecting cables for connection boxes
BG7SG7V1	Connecting cables for connection boxes
BG7V1P-N	Connection equipments
BG88SG88V2	Connection equipments
BG8SG8V1	Connecting cables for connection boxes
BG8V1P-N	Connection equipments
BS30Vxxx (BS=vision sensor, 30=dimension of description, xxx=number representing the software version number BS40Vxxx).	Vision sensors
BVCxxx (BVC=vsion control unit, xxx=pro number).	Wenglor computers
BVK001 (BVK=color dikital camera, 001=pro number).	Color digital cameras
BW2SG2V1	Connecting cables for connection boxes
BW7SG7V1	Connecting cables for connection boxes
FISZ-RS232	Connection equipments
FW, followed by 05, 06, 07, 08, 09, 10 or 11, followed by WH, RD, BU, GN, IR, UV or YE, etc. (color of the light), may be followed by suffixes.	Photoelectronic sensors, lamps
I, followed by NN, FB, HS, PT, 12, 08, 18, 30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, EB, EF, EM, ED, NR, NT, 50, or 5N, R2, R3, R5 or R8, followed by A, D, F, G, H, N, S or T, followed by three digits, maybe followed by additional suffixes.	Proximity switches

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I or K, followed by A, N, G or S, may be followed by B, E, G, H, I, J, L, M, O, P, Q, R, U, W or X, followed by S, may be followed by 008, 010, 015, 020, 025, 030, 040, 045, 050, 060, 070, 080, 100, 120, 130, 150, 200, 250, 300 or 350 or followed by digits, followed by B, C, D, E, N, Q, R, S or T, followed by A, E, K, M or T, followed by any two digits, followed by A, B, K, M, N, P, Q, S, T, U, V, X or Z, followed by A, B, C, D, G or I, may be followed by additional suffixes	Proximity switches
L followed by, BA, BB, BD, BL, BO, B9, FD, MR, MD, ML, followed by I, R, W, X, followed by additional suffixes.	Proximity Switches
MLSL101	Photoelectronic sensors
MLSL102	Photoelectronic sensors
MLSL103	Photoelectronic sensors
MLSL104	Photoelectronic sensors
MLSL121	Photoelectronic sensors
MLSL122	Photoelectronic sensors
MLSL123	Photoelectronic sensors
MLSL124	Photoelectronic sensors
MLSL131	Photoelectronic sensors
MLSL132	Photoelectronic sensors
MLSL133	Photoelectronic sensors
MLSL134	Photoelectronic sensors
MLSL225	Photoelectronic sensors
MLSL226	Photoelectronic sensors
MLSL235	Photoelectronic sensors
MLSL236	Photoelectronic sensors
MLSL245	Photoelectronic sensors
MLSL246	Photoelectronic sensors
MLSL255	Photoelectronic sensors
MLSL256	Photoelectronic sensors
MLSL275	Photoelectronic sensors
MLSL276	Photoelectronic sensors
MLWL101	Photoelectronic sensors
MLWL102	Photoelectronic sensors
MLWL103	Photoelectronic sensors
MLWL104	Photoelectronic sensors
MLWL105	Photoelectronic sensors
MLWL121	Photoelectronic sensors
MLWL122	Photoelectronic sensors
MLWL123	Photoelectronic sensors
MLWL124	Photoelectronic sensors
MLWL125	Photoelectronic sensors
MLWL131	Photoelectronic sensors
MLWL132	Photoelectronic sensors
MLWL133	Photoelectronic sensors
MLWL134	Photoelectronic sensors

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MLWL135	Photoelectronic sensors
MLWL141	Photoelectronic sensors
MLWL142	Photoelectronic sensors
MLWL143	Photoelectronic sensors
MLWL144	Photoelectronic sensors
MLWL145	Photoelectronic sensors
MLWL151	Photoelectronic sensors
MLWL152	Photoelectronic sensors
MLWL153	Photoelectronic sensors
MLWL154	Photoelectronic sensors
MLWL155	Photoelectronic sensors
MLWL171	Photoelectronic sensors
MLWL172	Photoelectronic sensors
MLWL173	Photoelectronic sensors
MLWL174	Photoelectronic sensors
MLWL175	Photoelectronic sensors
MLWL201	Photoelectronic sensors
MLWL202	Photoelectronic sensors
MLWL203	Photoelectronic sensors
MLWL204	Photoelectronic sensors
MLWL221	Photoelectronic sensors
MLWL222	Photoelectronic sensors
MLWL223	Photoelectronic sensors
MLWL224	Photoelectronic sensors
MLWL225	Photoelectronic sensors
MLWL231	Photoelectronic sensors
MLWL232	Photoelectronic sensors
MLWL233	Photoelectronic sensors
MLWL234	Photoelectronic sensors
MLWL235	Photoelectronic sensors
MLWL241	Photoelectronic sensors
MLWL242	Photoelectronic sensors
MLWL243	Photoelectronic sensors
MLWL244	Photoelectronic sensors
MLWL245	Photoelectronic sensors
MLWL251	Photoelectronic sensors
MLWL252	Photoelectronic sensors
MLWL253	Photoelectronic sensors
MLWL254	Photoelectronic sensors
MLWL255	Photoelectronic sensors
MLWL271	Photoelectronic sensors
MLWL272	Photoelectronic sensors
MLWL273	Photoelectronic sensors
MLWL274	Photoelectronic sensors
MLWL275	Photoelectronic sensors
Models starts maybe with O followed by A, A1, A2, A42, A57, C, D, E, E1, F, G, H, H1, J, K, K1, L, L1, O1, R, S,	Photoelectronic sensors

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S1, T, T1, U, V, W, X, X1, Y, Y1, Y2 or Z, followed by A, B, C, D, DK, E, EB, EI, F, FL, FK, G, H, K, II, L, M, N, O, P, Q, R, S, T, U, TA, V, W, WK, or X, followed by S, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 16, 22, 24, 25, 33, 35, 40, 44, 50, 55, 60, 66, 70, 77, 80, 83, 86, 87, 88, 89, 95, 96, 98, 99, or followed by other digits, may be followed by A, B, C, D, E, F, G, H, I, K, L, M, N, O, P, Q, R, T, U, V, W, X or Z, may be followed by A, B, C, D, E, F, G, H, I, S, T, V, X or Y, or followed by four digits, may be followed by A, B, C, D, F, H, S, T, V, or X, may be followed by additional suffixes.	
OPT, followed by 24, 87, 89, 104, 110, 114, 123, 144, 162, 164, 167 or followed by other digits.	Photoelectronic sensors
OPT, followed by 70, may be followed by N or S.	Photoelectronic sensors
OPT70N	Connection equipments
OPT70S	Connection equipments
OPT70S+	Connection equipments
P, followed by, NN,, FB, HS, PT, 12, 08, 18, 30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, 2K, 2P, 3E, 3P, EB, EF, EM, ED, 50, 5N, NB, followed by, A, C, D, E, F, G, H, J, K, L, M, P, R, T, S, W, X, Y, followed by, additional suffixes.	Proximity switches
PNBC001, PNBC002, PNBC003, PNBC004, PNBC005, PNBC006, PNBC007 and PNBC008	Photoelectronic sensors
S23	Connection equipments
S232W3	Connection equipments
S27	Connection equipments
S29	Connection equipments
S35G	Connection equipments
S35W	Connection equipments
S49	Connection equipments
S56	Connection equipments
S60	Connection equipments
S61	Connection equipments
S80	Connection equipments
S80W	Connection equipments
S88	Connection equipments
S88W	Connection equipments
T followed by I, followed by F, followed by three numbers, followed by A, B, C, D, E, F, G, H, I, M, N, P, U, V, X, followed by four numbers, maybe followed by additional suffixes.	Temperature measurement sensors
T followed by NN, FB, HS, PT, 12, 08,18,30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1X, EB, EF, EM, ED, 50 or 5N, followed by 0, followed by three digits, maybe followed by additional suffixes.	Temperature measurement sensors
U followed by NN,, FB, HS, PT, 12, 08,18,30, 1A, 1B, 1C, 1D, 1E, 1H, 1G, 2G, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T,	Ultrasonic sensors

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1U, 1X, EB, EF, EM, ED, 50 or 5N, followed by T, Y, followed by three digits, maybe followed by additional suffixes.	
U, followed by R or M, followed by D, F or S, followed by three numbers, followed by A, B, C, D, E, F, G, H, I, M, N, O, P, U, V or X, followed by one digit, followed by two numbers	Ultrasonic sensors
Z, followed by 60, VZ, followed by F, followed by additional suffixes.	Proximity Switches
ZF, followed by D, F, K, L, R or S, followed by B, G, I, U, R or W, followed by two digits, followed by -, followed by two digits.	Photoelectronic sensors, lamps
ZKA100	Photoelectronic sensors

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