Certificate Number 20190627-E189727

Report Reference E189727-19980216

Issue Date 2019-JULY-27

Issued to: wenglor sensoric GmbH

wenglor Strasse 3

88069 Tettnang GERMANY

This certificate confirms that PROXIMITY SWITCHES

representative samples of Models/Product

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA 22.2 No. 14-13 & UL 508, Industrial Control Equipment

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure 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.



Bruce Mahrenholz, Director North American Certification Program

UL LLC





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

USL, CNL - Class 2 Proximity switches:

Models I or K; followed by A, N, G, S; and/or followed by B, E, G, H, I, J, L, M, O, P, Q, R, U, W or X; followed by S and/or 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.

Alternative Designation (see Alternative Nomenclature I):

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, followed by A, G, H, N, S or T, followed by three digits.

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, 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.

Alternative Designation: (see Alternative Nomenclature II):

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, EB, EF, EM, ED, 50, 5N; followed by, A, C, D, E, F, G, H, J, K, L, M, P, R, T, S, W, Y; followed by, additional suffixes.

PNBC001, PNBC002, PNBC003, PNBC004, PNBC005, PNBC006, PNBC007 and PNBC008.

Model ZKA100.

Models OPT followed by 70, may be followed by N or S. Model OPT followed by 87, 89, 104, 110, 114, 123, 144, 162, 164, 167 or followed by other digits.

Models Lamps

ZF followed by D, F, K, L, R, S; followed by B, G, I, U, R, W; followed by two digits; followed by -; followed by two digits.

FW followed by 05, 06, 07, 08, 09, 10, 11; followed by WH, RD, BU, GN, IR, UV, YE, etc. (color of the light); may be followed by additional suffixes.

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Bruce Mahrenholz, Director North American Certification Program

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Temperature measurement sensors

Models 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.

Alternative Designation:

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, 5N followed by 0 followed by three digits.

Ultrasonic Sensors

Models U followed by R, M; followed by D, F, S; followed by three numbers; followed by A, B, C, D, E, F, G, H, I, M, N, O, P, U, V, X, followed by one digit; followed by two numbers.

Alternative Designation:

U 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, 5N followed by T, Y followed by three digits.

Models Vision sensor

BS30Vxxx BS= vision sensor, 30= dimension of description, xxx= three digits number representing the

coftware version number

software version number

BS40Vxxx

Models wenglor computer

BVCxxx BVC=Vision control Unit, xxx=pro number.

Models color digital camera

BVK001 BVK= color digital camera, 001=pro number

Image Processing products

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.

Alternative Designation:

B, C followed by NN, B1, B2, B3, 50, 5N, 5P, 5T, 5S, 5M, 5L, SL, SH followed by C, H, L, K, M, R, S followed by three digits



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2D/3D Sensors (see Nomenclature XXI):

Models MLSL101, MLSL102, MLSL103, MLSL104, MLSL121, MLSL122, MLSL123, MLSL124,

MLSL131, MLSL132, MLSL133, MLSL134, MLSL225, MLSL226, MLSL235, MLSL236,

MLSL245, MLSL246, MLSL255, MLSL256, MLSL275, MLSL276,

MLWL101, MLWL102, MLWL103, MLWL104, MLWL105,

MLWL121, MLWL122, MLWL123, MLWL124, MLWL125,

MLWL131, MLWL132, MLWL133, MLWL134, MLWL135,

MLWL141, MLWL142, MLWL143, MLWL144, MLWL145,

MLWL151, MLWL152, MLWL153, MLWL154, MLWL155,

MLWL171, MLWL172, MLWL173, MLWL174, MLWL175,

MLWL201, MLWL202, MLWL203, MLWL204,

MLWL221, MLWL222, MLWL223, MLWL224, MLWL225,

MLWL231, MLWL232, MLWL233, MLWL234, MLWL235,

MLWL241, MLWL242, MLWL243, MLWL244, MLWL245,

MLWL251, MLWL252, MLWL253, MLWL254, MLWL255,

MLWL271, MLWL272, MLWL273, MLWL274 and MLWL275.

Connection Box for Scanners, Model AB-0003-1

Analog Evaluation Unit, Model AW02

Connection Equipment, Models S232W3, BG2V1-N, BG7V1P-N, BG8V1P-N, BD25BD9V01, BD25SD25V02, BD9BD9V01, BG88SG88V2, FISZ-RS232, OPT70N, OPT70S, OPT70S+, AB-0003, AB-6700, AB-BLU01, AB-USB01, S23, S27, S29, S35G, S35W, S49, S56, S61, S60, S80, S80W, S88, S88W

Connecting cables for connection boxes, Models BG7SG7V1, BW7SG7V1, BG8SG8V1, BG7SG2V1, BG2SG2V1, BW2SG2V1.



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