Dimensions



## M<sup>14.8</sup> ø 5.2 -0.2 Emitter 88 Dovetail mount ø 6.5 LED indicator: switching state LED indicato switching state LED indicator ope

(brown) (white) (blue) (black)

## **Model Number**

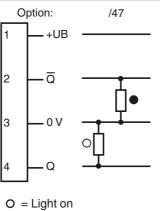
RL28-55-3018/35/44/47/115b Retroreflective sensor

with 0.3 m fixed cable and M12 connector, 4pin

## **Features**

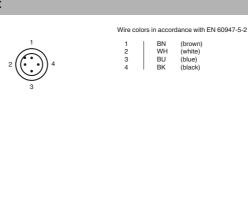
- Clearly visible LEDs for Power ON, • switching state and weak signal indication
- Not sensitive to ambient light, even ٠ with switched energy saving lamps
- Waterproof, degree of protection IP67
- Protection class II •

**Electrical connection** 



= Dark on

**Pinout** 



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Release date: 2018-03-26 09:53 Date of issue: 2018-03-26 201779\_eng.xml

RL28-55-3018/35/44/47/11	5b
--------------------------	----

General specifications     OMH-05       Effective detection range     0 20 m       Reflector distance     0.05 20 m       Threshold detection range     26 m       Reference target     H85-2 reflector       Light source     LED       Light type     modulated visible red light , 660 nm       Polarization filter     yes       Diameter of the light spot     approx. 350 mm at a distance of 20 m       Angle of divergence     emitter 1.2°       receiver 2°     Mounting bit       Ambient light limit     80000 Lux       MTTFd     950 a       MTTFd     950 a       Mission Time (T <sub>M</sub> )     20 a       Diagnostic Coverage (DC)     0 %       Indicators/operating means     OMH-RLK22       Operation indicator     LED green       Function indicator     LED green       Function indicator     LED green       Generating voltage     U <sub>B</sub> Operating voltage     U <sub>B</sub> Operating voltage     U <sub>B</sub> Diagnostic could be					
General specifications   OMI+05     Effective detection range   020 m     Reflector distance   0.0520 m     Threshold detection range   26 m     Reference target   HB5-2 reflectoro     Light source   LED     Uight source   LED     Angle of divergence   approx. 350 mm at a distance of 20 m     Angle of divergence   entiter 1.2°     Andsei of divergence   entiter 1.2°     Andsei of divergence   sprox. 350 nm at a distance of 20 m     MTTFd   850 a     MTTFd   950 a     MTTFd   950 a     MTTFd   950 a     MTTFd   950 a     MITFd   950 a     MITFd   950 a     MITFd   950 a     Mission Time (Tsa)   20 a     Diacators/operating means   OMH-21     Operating voltage   10 30 V DC     Ripple   10 %     No-load supply current   10 %     Switching voltage   max. 30 V DC     Switching r	Technical data			Accessorie	
Effective detection range     020 m     Mounting aid       Reflector distance     0.05 20 m     Mounting aid       Reflector distance     0.05 20 m     Mounting aid       Reflector distance     LED     Mounting aid       Reflector distance     ED     Mounting aid       Light source     ED     Mounting aid       Light type     modulated visible red light, 660 nm     Mounting bid       Polarization filter     yes     Mounting aid       Diameter of the light spot     approx. 350 mm at a distance of 20 m     Mounting bid       Ambient light limit     80000 Lux     Mounting bid     Mounting bid       MTTF_6     950 a     Mission Time (Typ)     20 a     Mounting bid       Diameter of the light spot     g shot of the stability control, off when light beam is free, flash when flash interrupted     OMH-ALV11     downting bid       Electrical specifications     2 LED syellow, light up when light beam is free, flash when flash strengted     Mounting bid       Function also apply current     10 %     Mounting bid     Mounting bid       Signal output     2 PNP, complementary, shot-circuit protected, reverse polarity protected , open collectors     Mounting bid       Switching requery					
Reflector distance   0.05 20 m   sheef 1.5 mm     Threshold detection range   26 m   Sheef 1.5 mm     Pelerence target   H85-2 reflector   OMI-07     Light type   modulated visible red light , 660 nm   Sheef 1.5 mm     Polarization filter   yes   Mounting aid     Diameter of the light spot   approx. 350 mm at a distance of 20 m   Mounting bra     Angle of divergence   enritter 1.2 °°   Mounting bra     Ambient light limit   60000 Lux   OMI+22     Functional safety related parameters   Mounting bra     MITF.6   950 a   OMI-MILL     Milicators/operating means   OMI+ALLX29   Mounting bra     Operation indicator   LED green   Mounting bra     Function indicator   LED green   Mounting bra     Function indicator   LED green   Mounting bra     Portacion indicator   LED green   Mounting bra     Product also profilege   10 °°. NO   Mounting bra     Object   10 °°. NO   Mounting bra     Signal output   2 40 °°. A   Mounting bra     Signal output   2 For P, complementary, short-circuit protected, reverse polarity protected , open collectors     Switching votage   max. 300 VDC     Switching votage   max. 300 VDC </td <td></td> <td></td> <td>0 20 m</td> <td></td>			0 20 m		
Threshold detection range       26 m       Sheet 1.5 mm         Reference target       H85-2 reflector       OMH-07         Light source       LED       Mounting aid sheet 1.5 mm         Diameter of the light spot       approx. 350 mm at a distance of 20 m       OMH-21         Angle of divergence       entier 1.2"       ecceiver 2"       Mounting bra         Ambient light limit       80000 Lux       OMH-21       Mounting bra         Mission Time (T <sub>k</sub> )       20 a       OMH-81       Mounting bra         Diargetaitor Setting thema       20 a       OMH-81       Mounting bra         Operating indicator       LED green       Mounting bra       Mounting bra         Functional steppe (DC)       0 %       OMH-RL284       Wold slag co         Operating voltage       Ug       1030 V DC       Other suitable www.pepperl-f       Wold slag co         No-load supply current       10 %       Switching type       Ight on       Signal output       2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors       Switching trequency       1       2 Sto Ma         Switching requency       1       2 ms       Conformity       Forection       Forection	•			Mounting aid for round steel ø	
Reference target   H8-2 reflector   Multi-07     Light source   LED   Mounting addition     Polarization filter   yes   Mounting addition     Diameter of the light spot   approx. 350 mm at a distance of 20 m   Milt-21     Angle of divergence   remitter 1.2"   Mounting addition     Functional safety related parameters   Mounting brain   OMH-21     Mission Time (T <sub>M</sub> )   20 a   OMH-41     Diagnostic Coverage (DC)   0 %   OMH-HLK22     Indicators/Operating means   Coverage (CC)   0 %     Optarating voltage   Up of 030 V DC   OMH-RLK23     Ripple   10 %   OMH-21     No-back supply current   10 %   Sold max     Switching voltage   max. 30 V DC   Other suitable www.pepperl-4     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage   max. 30 V DC   Switching voltage   max. 30 V DC     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage   max. 30 V DC   Weld slag co     Switching voltage <td< td=""><td></td><td></td><td></td><td colspan="2">sheet 1.5 mm 3 mn</td></td<>				sheet 1.5 mm 3 mn	
Light source   LED   Mounting aid     Light type   modulated visible red light, 660 nm   Mounting aid     Sheet 1.5 mm   approx. 350 nm at a distance of 20 m   Mounting bra     Angle of divergence   emitter 1.2°   Mounting bra     Ambient light limit   80000 Lux   OMH-21     Mussion Time (T <sub>M</sub> )   20 a   OMH-RLV11     Diaposite Coverage (DC)   0 %   OMH-RLV11     Operation indicator   LED green   OMH-RL28     Function indicator   LED green   OMH-RL28     Punction indicator   LED green   OMH-RL28     Pinction indicator   LED green   OMH-RL28     Pinction indicator   LED green   OMH-RL28     No-load supply current   0 %   OMH-RL28     No-load supply current   0 %   OMH-RL28     Switching type   light on   Signal output   2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors   Weid slag co     Switching frequery   10 %   No   OMA     Switching frequery   10 %   Cotque   Mounting bra     Switching frequery   10 %   Cotque   Response time   2 ms     Conformity   Product standard   EN 60947-5-2   Ambient temperature   40 75 °C (-40 140				0.000	
Light type   modulated visible red light , 660 nm   moduling and steel 1.5 mm     Polarater of the light spot   approx. 350 nm at a distance of 20 m   OMH-21     Angle of divergence   emitter 1.2*   moduling and steel 1.5 mm     receiver 2*   andient light limit   80000 Lux   OMH-21     Functional safety related parameters   Mounting bra   OMH-21     Mitsion Time (T <sub>M</sub> )   20 a   OMH-MLV11     Diagnetic Coverage (DC)   0 %   OMH-MLV11     Indicators/operating means   Depration indicator   LED green     Punction indicator   LED green   Mounting bra     Function indicator   LED syllow, light up when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash when falling short of the stability control, off when light beam is free, flash wh	-			Mounting aid for round steel a	
Polarization filter     yes     Site 11:0 min       Diameter of the light spot     approx. 350 mat a distance of 20 m     OMH-21       Angle of divergence     emitter 12"     receiver 2"     Mounting bra       Ambient light limit     80000 Lux     OMH-22     Mounting bra       Functional safety related parameters     0011-22     Mounting bra       MTTF_d     950 a     OMH-MLV11     dove tail mou       Indicators/operating means     0     0H-RLX28     Mounting bra       Operation indicator     LED green     Electrical specifications     OMH-RLX28       Operating voltage     Ug     1030 V DC     Other suitable       Ripple     10 %     OMH-RLX28     OMH-RLX28       No-load supply current     10 ≤ 40 mA     OMH-RLX29     Ower suitable       Signal output     2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable       Switching voltage     max. 30 V DC     max. 30 V DC     Other suitable       Switching voltage     max. 30 V DC     The suitable     Other suitable       Switching voltage     max. 30 V DC     The suitable     Other suitable       Switching voltage	-				
Diameter of the light spot     approx: 350 mm at a distance of 20 m     OMH-21       Angle of divergence     emitter 1.2°     functional safety related parameters     OMH-22       Ambient light limit     80000 Lux     OMH-21     Mounting bra       Functional safety related parameters     950 a     OMH-MUTT     OMH-MUTT       Diagnostic Coverage (DC)     0 %     OMH-MUTT     OMH-MUTT     OMH-MUTT       Operation indicator     LED green     Function indicator     ELED synow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted     OMH-RL280       Portating voltage     Up     1030 V DC     Weld slag cor       Ripple     10 %     ONH-RL280       No-load supply current     10 ≤ 40 mA     Other suitable       Signal output     2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable       Switching frequency     12 OHz     2 ms     Other suitable       Conformity     Product standard     EN 60947-5-2     Ambient temperature       Anbient conditions     -40 60 °C (-40 140 °F)     Storage temperature     40 75 °C (-40 140 °F)       Mechanical specifications     B mm     B m			<b>–</b> •	sheet 1.5 mm	
Angle of divergence     emitter 12° receiver 2°     Mounting bra       Ambient light limit     80000 Lux     OMH-22       Functional safety related parameters     Mounting bra       MTTFq     950 a     OMH-21       Mission Time (T <sub>M</sub> )     20 a     OMH-21       Indicators/Operating means     ED     OMH-RLX29       Operation indicator     LED green     OMH-RLX29       Function indicator     2 LEDs yellow, light up when light beam is free, flash when fight paem is interrupted     OMH-RL294       Electrical specifications     0 0 30 V DC     Other suitable www.pepperhf       No-load supply current     10 %     Other suitable www.pepperhf       Signal output     2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable www.pepperhf       Switching voltage     max. 30 V DC     max. 30 V DC       Signal output     2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable www.pepperhf       Switching voltage     max. 30 V DC     max. 30 V DC       Switching requency     f     250 Hz       Response time     2 ms     Conformity       Product standard     EN 60947-5-2     Ambient condition			-	OMH-21	
Ambient light limit     80000 Lux     OMH-22       Ambient light limit     80000 Lux     OMH-22       MTFg     950 a     Mounting brack       MTFg     950 a     Mounting brack       Mission Time (T <sub>M</sub> )     20 a     OMH-21       Jognostic Coverage (DC)     0 %     OMH-MLV11       Indicators/operating means     0     OMH-RLS25       Operation indicator     2 LED syellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted     OMH-RLS25       Electrical specifications     0					
Functional safety related parameters     Mounting brack       MTTF <sub>g</sub> 950 a       Mission Time (T <sub>w</sub> )     20 a       Diagnostic Coverage (DC)     0 %       Indicators/operating means     0       Operation indicator     LED green       Function indicator     2 LED syellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted     0MH-RLX29.       Overlating voltage     Ug     1030 V DC     Weld slag cox       Pipple     10 %     Weld slag cox     Other suitable www.pepperhf.       Switching voltage     max. 200 mA     Other suitable www.pepperhf.     Weld slag cox       Switching voltage     max. 200 mA     Other suitable www.pepperhf.     Weld slag cox       Switching voltage     max. 200 mA     Other suitable www.pepperhf.       Switching voltage     max. 200 mA     Other suitable www.pepperhf.       Conformity     Product standard     EN 60947-5-2       Ambient conditions     40 60 °C (-40 140 °F)     Storage temperature     -40 75 °C (-40 167 °F)       Mechanical specifications     With 0.3 m fixed cable and M12 connector, 4-pin     Material       Housing height     88 mm     Mounting brace <td></td> <td></td> <td></td> <td>wounting brac</td>				wounting brac	
Functional safety related parameters     Mounting brack       MTTF <sub>g</sub> 950 a       Mission Time (T <sub>w</sub> )     20 a       Diagnostic Coverage (DC)     0 %       Indicators/operating means     0       Operation indicator     LED green       Function indicator     2 LED syellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted     0MH-RLX29.       Overlating voltage     Ug     1030 V DC     Weld slag cox       Pipple     10 %     Weld slag cox     Other suitable www.pepperhf.       Switching voltage     max. 200 mA     Other suitable www.pepperhf.     Weld slag cox       Switching voltage     max. 200 mA     Other suitable www.pepperhf.     Weld slag cox       Switching voltage     max. 200 mA     Other suitable www.pepperhf.       Switching voltage     max. 200 mA     Other suitable www.pepperhf.       Conformity     Product standard     EN 60947-5-2       Ambient conditions     40 60 °C (-40 140 °F)     Storage temperature     -40 75 °C (-40 167 °F)       Mechanical specifications     With 0.3 m fixed cable and M12 connector, 4-pin     Material       Housing height     88 mm     Mounting brace <td>Ambient light limit</td> <td></td> <td>80000 Lux</td> <td colspan="2">OMH-22</td>	Ambient light limit		80000 Lux	OMH-22	
MTTFd950 aMitsion Time (T <sub>M</sub> )20 aDiagnotic Coverage (C)0 %Indicators/operating means0MH-MLV11-Operation indicatorLED greenFunction indicator2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted0MH-RL29-C Weld slag covElectrical specifications0 30 V DCOperating voltageU <sub>B</sub> 10 30 V DCNo-load supply current10 $\leq$ 40 mAOutputSignal output2 PNP, complementary, short-circuit protected, reverse polarity 	-	arameters		-	
Mission Time (T_M)20 aOMH-MLV11Diagnostic Coverage (DC)0 %0 %OWH-MLV111Indicators/operating meansUED greenOWH-RLK29Operation indicator2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interruptedOMH-RLK29Electrical specifications0 30 V DCWeld slag cowOperating voltageUg b10 30 V DCOther suitable www.pepperl-fuNo-load supply currentlo< 40 mA			950 a		
Diagnostic Coverage (DC)0 %dove tail moutIndicators/operating meansEED green $OPeration indicator2 LEDs yellow, light up when light beam is free, flash whenfailing short of the stability control, off when light beam isinterruptedOMH-RLK29-MOUNTING braveElectrical specifications0 \dots 30 V D COH+RLK29-MOUNTING braveOH+RLK29-MOUNTING braveOperating voltageUg10 30 V D COH+RLK29-MOUNTING braveOH+RLK29-MOUNTING braveNo-load supply currentI_0 \leq 40 \text{ mA}Other suitableOutputSignal output2 PNP, complementary, short-circuit protected, reverse polarityprotected open collectorsOH+RLK29-MOUNTING braveSwitching voltagemax. 30 V D CMax = 200 \text{ mA}Max = 200 \text{ mA}Switching requencyf250 \text{ Hz}Response time2 \text{ ms}Product standardEN 60947-5-2Ambient conditionsA0 \dots 75 °C (-40 \dots 167 °F)Machanical specificationsHousing width25.8 \text{ mm}Housing width25.8 \text{ mm}Housing widthHousing width25.8 \text{ mm}Housing the protecton1P67<$	-			OMH-MLV11	
Indicators/operating means     Operation indicator     LED green       Function indicator     2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted     OMH-RLX29-CM       Electrical specifications     Operating voltage     Ug     10 30 V DC       Operating voltage     Ug     10 30 V DC     Other suitable       Ripple     10 %     Other suitable     Other suitable       Output     2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable       Switching voltage     max. 30 V DC     max. 200 mA       Switching requency     f     25 0 Hz       Response time     2 ms     Conformity       Product standard     E Ne 60947-5-2       Ambient conditions     In 60 °C (-40 140 °F)       Ansient conditions     In 75 °C (-40 167 °F)       Housing width     25.8 mm       Housing width     25.8 mm       Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material     IP67       Connection     With 0.3 m fixed cable and M12 connector, 4-pin       Material     I	( 11)			dove tail mou	
Operation indicator     LED green     Outn+nLX29       Function indicator     2 LEDs yellow, light up when light beam is free, flash when falling shout of the stability control, off when light beam is interrupted     OMH-RL28-C       Electrical specifications     0     0       Operating voltage     UB     1030 V DC     Weld slag cox       No-load supply current     I₀     ≤ 40 mA     Other suitable       Output     10 %     Weld slag cox     Other suitable       Switching type     light on     2PNP, complementary, short-circuit protected, reverse polarity protected , open collectors     Other suitable       Switching voltage     max. 30 V DC     max. 30 V DC     Other suitable       Switching trequency     f     250 Hz     max. 30 V DC     Other suitable       Switching trequency     f     250 Hz     max. 30 V DC     The suitable       Switching trequency     f     250 Hz     max. 30 V DC     The suitable       Switching trequency     f     250 Hz     max. 30 V DC     The suitable     The suitable     The suitable       Switching trequency     f     250 Hz     max. 30 V DC     The suitable     The suitable     The suitable     The suitable					
Function indicator $2 LEDs yellow, light up when light beam is free, flash whenfalling short of the stability control, off when light beam isinterruptedMounting bracElectrical specifications0 M H - RL28 - CWeld slag covOperating voltageU_g1030 V DC0 M - RL28 - CWeld slag covOther suitablewww.pepperl-fuNo-load supply currentl_0 \leq 40 m A0 M - RL28 - CWeld slag covOther suitablewww.pepperl-fuSwitching typelight on2 PNP, complementary, short-circuit protected, reverse polarityprotected , open collectorsSwitching voltagemax. 30 V DCmax. 30 V DCSwitching voltagemax. 30 V DC2 msThe second stability of the s$			LED green	OMH-RLK29-HW	
falling short of the stability control, off when light beam is interruptedOMH-RL28-C Weld slag covElectrical specifications0Operating voltageUg10 30 V DCRipple10 %No-load supply currentIg<40 mA			5	Mounting brac	
Interrupted   OUNT-FL2S-C     Electrical specifications   Weld slag correct     Operating voltage   UB   10 30 V DC     Ripple   10 %   Other suitable     No-load supply current   I0   ≤ 40 mA     Output   Switching type   light on     Signal output   2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors   max. 30 V DC     Switching voltage   max. 30 V DC   max. 30 V DC     Switching requency   f   250 Hz     Response time   2 ms   Conformity     Product standard   EN 60947-5-2     Ambient conditions   -40 60 °C (-40 140 °F)     Storage temperature   -40 60 °C (-40 140 °F)     Storage temperature   -40 75 °C (-40 167 °F)     Mechanical specifications   -40 75 °C (-40 167 °F)     Housing height   88 mm     Housing depth   54.3 mm     Posterion   IP67     Connection   with 0.3 m fixed cable and M12 connector, 4-pin     Material	. anotor indicator				
Contention of the second se					
Ripple     10 %     With Suble of the second s	Electrical specifications			vveia slag co	
Ripple10 %www.pepperl-fitNo-load supply current $l_0 \leq 40$ mAOutputSwitching typeSwitching typelight onSignal output2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectorsSwitching voltagemax. 30 V DCSwitching frequencyfSwitching frequencyf250 HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient temperature-40 60 °C (-40 140 °F)Storage temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 140 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterial	Operating voltage	UB	10 30 V DC	Other suitable	
No-load supply current $I_0 \leq 40 \text{ mA}$ OutputSwitching typelight onSignal output2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectorsSwitching voltagemax. 30 V DCSwitching frequencyfSwitching frequencyf2 Sol HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient conditionsHousing width25.8 mmHousing width25.8 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialHousingHousingPlastic ABSOptical faceplasticMass70 gApprovals and certificatesII, rated voltage < 250 V AC with pollution degree 1-2 according to IEC 60664-1	Ripple		10 %		
Switching typelight onSignal output2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectorsSwitching voltagemax. 30 V DCSwitching currentmax. 200 mASwitching frequencyf250 HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterial-HousingPlastic ABSOptical faceplasticMass70 gProtection classII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	No-load supply current	I <sub>0</sub>	≤ 40 mA		
Signal output2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectorsSwitching voltagemax. 30 V DCSwitching frequencyfSwitching frequencyf2 So HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient conditionsMechanical specificationsHousing width25.8 mmHousing width25.8 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialHousingHousingPlastic ABSOptical faceplasticProtection classII, rated voltage < 250 V AC with pollution degree 1-2 according to IEC 60664-1	Output				
Signal output2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectorsSwitching voltagemax. 30 V DCSwitching frequencyfSwitching frequencyf2 50 HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient conditionsMechanical specificationsHousing width25.8 mmHousing width25.8 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 3 m fixed cable and M12 connector, 4-pinMaterialHousingHousingPlastic ABSOptical faceplasticPastic70 gApprovals and certificatesII, rated voltage < 250 V AC with pollution degree 1-2 according to IEC 60664-1	-		light on		
Switching voltagemax. 30 V DCSwitching currentmax. 200 mASwitching frequencyfSwitching frequencyfProduct standard2 msConformityProduct standardEN 60947-5-2Ambient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwa fixed cable and M12 connector, 4-pinMaterialHousingPlastic ABSOptical faceplasticMass70 gProtection classII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60064-1			-		
Switching currentmax. 200 mASwitching frequencyf250 HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialIHousingPlastic ABSOptical faceplasticApprovals and certificatesII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1					
Switching frequencyf250 HzResponse time2 msConformityProduct standardEN 60947-5-2Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialHousingPlastic ABSOptical faceplasticMass70 gApprovals and certificatesProtection classII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1					
Response time2 msConformityEN 60947-5-2Product standardEN 60947-5-2Ambient conditions	, and the second				
ConformityProduct standardEN 60947-5-2Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialPlastic ABSOptical faceplasticOptical faceplasticProtection classII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1		f			
Product standardEN 60947-5-2Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialHousingPlastic ABSOptical faceplasticMass70 gApprovals and certificatesProtection classII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1			2 ms		
Ambient conditionsAmbient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialHousingHousingPlastic ABSOptical faceplasticMass70 gApprovals and certificatesII, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Conformity				
Ambient temperature-40 60 °C (-40 140 °F)Storage temperature-40 75 °C (-40 167 °F)Mechanical specifications	Product standard		EN 60947-5-2		
Storage temperature-40 75 °C (-40 167 °F)Mechanical specificationsHousing width25.8 mmHousing height88 mmHousing depth54.3 mmDegree of protectionIP67Connectionwith 0.3 m fixed cable and M12 connector, 4-pinMaterialImage: State of the	Ambient conditions				
Mechanical specifications       Housing width     25.8 mm       Housing height     88 mm       Housing depth     54.3 mm       Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material	Ambient temperature		-40 60 °C (-40 140 °F)		
Housing width     25.8 mm       Housing height     88 mm       Housing depth     54.3 mm       Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material	Storage temperature		-40 75 °C (-40 167 °F)		
Housing height     88 mm       Housing depth     54.3 mm       Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material     Housing       Plastic ABS     Optical face       Optical face     plastic       Mass     70 g       Approvals and certificates       Protection class     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Mechanical specifications				
Housing depth     54.3 mm       Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material     Housing       Plastic ABS     Optical face       Optical face     plastic       Mass     70 g       Approvals and certificates       Protection class     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Housing width		25.8 mm		
Degree of protection     IP67       Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material     Housing       Plastic ABS     Optical face       Optical face     plastic       Mass     70 g       Approvals and certificates       Protection class     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Housing height		88 mm		
Connection     with 0.3 m fixed cable and M12 connector, 4-pin       Material     Housing       Housing     Plastic ABS       Optical face     plastic       Mass     70 g       Approvals and certificates     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Housing depth		54.3 mm		
Material       Housing     Plastic ABS       Optical face     plastic       Mass     70 g       Approvals and certificates       Protection class     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Degree of protection		IP67		
Housing   Plastic ABS     Optical face   plastic     Mass   70 g     Approvals and certificates   II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Connection		with 0.3 m fixed cable and M12 connector, 4-pin		
Optical face   plastic     Mass   70 g     Approvals and certificates   II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Material				
Mass   70 g     Approvals and certificates   II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Housing		Plastic ABS		
Approvals and certificates       Protection class     II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Optical face		plastic		
Protection class II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	Mass		70 g		
Protection class II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1					
according to IEC 60664-1	Approvals and certificates				
UL approval E87056 , cULus Listed , class 2 power supply , type rating 1	Protection class				
	UL approval		E87056 , cULus Listed , class 2 power supply , type rating 1		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

www.pepperl-fuchs.com

2

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

