



**PHOTO-ELECTRIC SENSORS
OPTIC FIBRES
SPECIFIC PRODUCTS
LASER SENSORS
VISION ASSISTED PROXIMITY DETECTION**



Products available through Schneider sales Network


Dinel part number	=S= part number	Dinel part number	=S= part number	Dinel part number	=S= part number
AF CLARYS 2 AN SN	XUYAFCLARY2ANSN	FL NEPTUNE 60/002 CO S	XUYFLNEP60002	FV PML101	XUYFVPM101
AF CLARYS 2 AN SP	XUYAFCLARY2ANS P	FL NEPTUNE 60/005 CO S	XUYFLNEP60005	FV PMC101	XUYFVPMC101
AF CLARYS 2 ST SN	XUYAFCLARY2STSN	FL NEPTUNE 60/015 CO S	XUYFLNEP60015	FV PMD 151	XUYFVPM151
AF CLARYS 2 ST SP	XUYAFCLARY2STSP	FL NEPTUNE 60/030 CO S	XUYFLNEP60030	FV PMA151	XUYFVPM151
AF CLARYS 3 AN SN	XUYAFCLARY3ANSN	FL NEPTUNE 60/050 CO S	XUYFLNEP60050	FV PML151	XUYFVPTL151
AF CLARYS 3 AN SP	XUYAFCLARY3ANS P	FL NEPTUNE 60/080 CO S	XUYFLNEP60080	FV PMC151	XUYFVPMC151
AF CLARYS 3 ST SN	XUYAFCLARY3STSN	FL NEPTUNE 60/120 CO S	XUYFLNEP60120	FV PMD 201	XUYFVPM201
AF CLARYS 3 ST SP	XUYAFCLARY3STSP	FL NEPTUNE 100/002 CO S	XUYFLNEP100002	FV PMA201	XUYFVPM201
AF CLARYS 4 AN SN	XUYAFCLARY4ANSN	FL NEPTUNE 100/005 CO S	XUYFLNEP100005	FV PML201	XUYFVPTL201
AF CLARYS 4 AN SP	XUYAFCLARY4ANS P	FL NEPTUNE 100/015 CO S	XUYFLNEP100015	FV PMC201	XUYFVPMC201
AF CLARYS 4 ST SN	XUYAFCLARY4STSN	FL NEPTUNE 100/030 CO S	XUYFLNEP100030	FV PMD 301	XUYFVPM301
AF CLARYS 4 ST SP	XUYAFCLARY4STSP	FL NEPTUNE 100/050 CO S	XUYFLNEP100050	FV PTD 61	XUYFVPTD61
E2PROM CLARYS	XUYAFCLARYE2P	FL NEPTUNE 100/080 CO S	XUYFLNEP100080	FV PTA 61	XUYFVPTA61
F NEPTUNE 40/002 CO S	XUYFNEP40002	FL NEPTUNE 100/120 CO S	XUYFLNEP100120	FV PTL 61	XUYFVPTL61
F NEPTUNE 40/005 CO S	XUYFNEP40005	B CO 989 S N	XUYBCO989SN	FV PTC 61	XUYFVPTC61
F NEPTUNE 40/015 CO S	XUYFNEP40015	B CO 989 S P	XUYBCO989SP	FV PTD 101	XUYFVPTD101
F NEPTUNE 40/030 CO S	XUYFNEP40030	B 989 S N	XUYB989SN	FV PTA101	XUYFVPTA101
F NEPTUNE 40/050 CO S	XUYFNEP40050	B989 S P	XUYB989SP	FV PTL101	XUYFVPTL101
F NEPTUNE 40/080 CO S	XUYFNEP40080	P CO 989 S N	XUYPCO989SN	FV PTC101	XUYFVPTC101
F NEPTUNE 40/120 CO S	XUYFNEP40120	P CO 989 S P	XUYPCO989SP	FV PTD 151	XUYFVPTD151
F NEPTUNE 60/002 CO S	XUYFNEP60002	P989 S N	XUYP989SN	FV PTA151	XUYFVPTA151
F NEPTUNE 60/005 CO S	XUYFNEP60005	P989 S P	XUYP989SP	FV PTL151	XUYFVPTL151
F NEPTUNE 60/015 CO S	XUYFNEP60015	AFP CO 989 S N	XUYAFPCO989SN	FV PTC151	XUYFVPTC151
F NEPTUNE 60/030 CO S	XUYFNEP60030	AFP CO 989 S P	XUYAFPCO989SP	FV PTD 201	XUYFVPTD201
F NEPTUNE 60/050 CO S	XUYFNEP60050	AFP989 S N	XUYAFP989SN	FV PTA201	XUYFVPTA201
F NEPTUNE 60/080 CO S	XUYFNEP60080	AFP989 S P	XUYAFP989SP	FV PTL201	XUYFVPTL201
F NEPTUNE 60/120 CO S	XUYFNEP60120	E989	XUYE989	FV PTC201	XUYFVPTC201
F NEPTUNE 100/002 CO S	XUYFNEP100002	E989IR	XUYE989IR	FV PTD 501	XUYFVPTD501
F NEPTUNE 100/005 CO S	XUYFNEP100005	E CO 989	XUYECO989	FV ER SD 61	XUYFVERSD61
F NEPTUNE 100/015 CO S	XUYFNEP100015	R CO 989 S N	XUYRCO989SN	FV ERSA 61	XUYFVERSA61
F NEPTUNE 100/030 CO S	XUYFNEP100030	R CO 989 S P	XUYRCO989SP	FV ERS1 61	XUYFVERSL61
F NEPTUNE 100/050 CO S	XUYFNEP100050	R 989 S N	XUYR989SN	FV ERSC 61	XUYFVERSC61
F NEPTUNE 100/080 CO S	XUYFNEP100080	R989 S P	XUYR989SP	FV ER SD 101	XUYFVERSD101
F NEPTUNE 100/120 CO S	XUYFNEP100120	PS CO 989 S N	XUYPSCO989SN	FV ERSA101	XUYFVERSA101
FA NEPTUNE 40/002 CO S	XUYFANEP40002	PS CO 989 S P	XUYPSCO989SP	FV ERS1101	XUYFVERSL101
FA NEPTUNE 40/005 CO S	XUYFANEP40005	PS 989 S N	XUYPS989SN	FV ERSC101	XUYFVERSC101
FA NEPTUNE 40/015 CO S	XUYFANEP40015	PS 989 S P	XUYPS989SP	FV ER SD 151	XUYFVERSD151
FA NEPTUNE 40/030 CO S	XUYFANEP40030	PS 2-945-S	XUYPS2945S	FV ERSA151	XUYFVERSA151
FA NEPTUNE 40/050 CO S	XUYFANEP40050	PS 2 CO 945 S	XUYPS2CO945S	FV ERS151	XUYFVERSL151
FA NEPTUNE 40/080 CO S	XUYFANEP40080	PS1L CO 965 S	XUYPS1LCO965S	FV ERSC151	XUYFVERSC151
FA NEPTUNE 40/120 CO S	XUYFANEP40120	LC2001	XUYLCO2001	FV ER SD 201	XUYFVERSD201
FA NEPTUNE 60/002 CO S	XUYFANEP60002	LC2004	XUYLCO2004	FV ERSA201	XUYFVERSA201
FA NEPTUNE 60/005 CO S	XUYFANEP60005	FA 98-3003 S	XUYFA983003S	FV ERS1201	XUYFVERSL201
FA NEPTUNE 60/015 CO S	XUYFANEP60015	FA 98-3003 CO S	XUYFA983003COS	FV ERSC201	XUYFVERSC201
FA NEPTUNE 60/030 CO S	XUYFANEP60030	FA 98-3005 CO S	XUYFA983005COS	FV ER MD 61	XUYFVERMD61
FA NEPTUNE 60/050 CO S	XUYFANEP60050	F 95-3002 S	XUYF953002S	FV ERMA 61	XUYFVERMA61
FA NEPTUNE 60/080 CO S	XUYFANEP60080	F 95-3002 CO S	XUYF953002COS	FV ERML 61	XUYFVERML61
FA NEPTUNE 60/120 CO S	XUYFANEP60120	F 95-4002 S	XUYF954002S	FV ERM1 61	XUYFVERM161
FA NEPTUNE 100/002 CO S	XUYFANEP100002	F 95-4002 CO S	XUYF954002COS	FV ERM6 61	XUYFVERM661
FA NEPTUNE 100/005 CO S	XUYFANEP100005	F 95-4120 S	XUYF954120S	FV ER MD 101	XUYFVERMD101
FA NEPTUNE 100/015 CO S	XUYFANEP100015	F 95-4120 CO S	XUYF954120COS	FV ERMA101	XUYFVERMA101
FA NEPTUNE 100/030 CO S	XUYFANEP100030	F 95-4015 S	XUYF954015S	FV ERML101	XUYFVERML101
FA NEPTUNE 100/050 CO S	XUYFANEP100050	F 95-4015 CO S	XUYF954015COS	FV ERM101	XUYFVERM101
FA NEPTUNE 100/080 CO S	XUYFANEP100080	F 95-4225 CO S	XUYF954225COS	FV ERM151	XUYFVERM151
FA NEPTUNE 100/120 CO S	XUYFANEP100120	F 95-4030 S	XUYF954030S	FV ERMA151	XUYFVERMA151
FAL NEPTUNE 40/002 CO S	XUYFALNEP40002	F 95-4030 CO S	XUYF954030COS	FV ERML151	XUYFVERML151
FAL NEPTUNE 40/005 CO S	XUYFALNEP40005	F 95-4050 S	XUYF954050S	FV ERM151	XUYFVERM151
FAL NEPTUNE 40/015 CO S	XUYFALNEP40015	F 95-4050 CO S	XUYF954050COS	FV ERM151	XUYFVERM151
FAL NEPTUNE 40/030 CO S	XUYFALNEP40030	F 95-4080 CO S	XUYF954080COS	FV ERMD 201	XUYFVERMD201
FAL NEPTUNE 40/050 CO S	XUYFALNEP40050	FV PSD 61	XUYFVPSD61	FV ERMA201	XUYFVERMA201
FAL NEPTUNE 40/080 CO S	XUYFALNEP40080	FV PSA 61	XUYFVPSA61	FV ERML201	XUYFVERML201
FAL NEPTUNE 40/120 CO S	XUYFALNEP40120	FV PSL 61	XUYFVPSL61	FV ERM201	XUYFVERM201
FAL NEPTUNE 60/002 CO S	XUYFALNEP60002	FV PSC 61	XUYFVPSC61	FV ER TD 61	XUYFVERTD61
FAL NEPTUNE 60/005 CO S	XUYFALNEP60005	FV PSC 71	XUYFVPSC71	FV ER TA 61	XUYFVERTA61
FAL NEPTUNE 60/015 CO S	XUYFALNEP60015	FV PSD 101	XUYFVPSD101	FV ERTL 61	XUYFVERTL61
FAL NEPTUNE 60/030 CO S	XUYFALNEP60030	FV PSA101	XUYFVPSA101	FV ERTC 61	XUYFVERTC61
FAL NEPTUNE 60/050 CO S	XUYFALNEP60050	FV PSL101	XUYFVPSL101	FV ER TD 101	XUYFVERTD101
FAL NEPTUNE 60/080 CO S	XUYFALNEP60080	FV PSC101	XUYFVPSC101	FV ER TA101	XUYFVERTA101
FAL NEPTUNE 60/120 CO S	XUYFALNEP60120	FV PSD151	XUYFVPSD151	FV ERTL101	XUYFVERTL101
FAL NEPTUNE 100/002 CO S	XUYFALNEP100002	FV PSA151	XUYFVPSA151	FV ERTC101	XUYFVERTC101
FAL NEPTUNE 100/005 CO S	XUYFALNEP100005	FV PSL151	XUYFVPSL151	FV ER TD 151	XUYFVERTD151
FAL NEPTUNE 100/015 CO S	XUYFALNEP100015	FV PSC151	XUYFVPSC151	FV ER TA151	XUYFVERTA151
FAL NEPTUNE 100/030 CO S	XUYFALNEP100030	FV PSD 201	XUYFVPSD201	FV ERTL151	XUYFVERTL151
FAL NEPTUNE 100/050 CO S	XUYFALNEP100050	FV PSA 201	XUYFVPSA201	FV ERTC151	XUYFVERTC151
FAL NEPTUNE 100/080 CO S	XUYFALNEP100080	FV PSL201	XUYFVPSL201	FV ER TD 201	XUYFVERTD201
FAL NEPTUNE 100/120 CO S	XUYFALNEP100120	FV PSC201	XUYFVPSC201	FV ER TA201	XUYFVERTA201
FL NEPTUNE 40/002 CO S	XUYFLNEP40002	FV PSD 301	XUYFVPSD301	FV ERTL 201	XUYFVERTL201
FL NEPTUNE 40/005 CO S	XUYFLNEP40005	FV PMD 61	XUYFVPM61	FV ERTC201	XUYFVERTC201
FL NEPTUNE 40/015 CO S	XUYFLNEP40015	FV PMA 61	XUYFVMA61	FP PSD 61	XUYFPPSD61
FL NEPTUNE 40/030 CO S	XUYFLNEP40030	FV PML 61	XUYFVPM61	FP PSD 101	XUYFPPSD101
FL NEPTUNE 40/050 CO S	XUYFLNEP40050	FV PMC 61	XUYFVPM61	FP PSD 151	XUYFPPSD151
FL NEPTUNE 40/080 CO S	XUYFLNEP40080	FV PMD 101	XUYFVPM101	FP PSD 201	XUYFPPSD201
FL NEPTUNE 40/120 CO S	XUYFLNEP40120	FV PMA101	XUYFVMA101	FP ERSD 61	XUYFPPERSD61
				FP ERSD 101	XUYFPPERSD101
				FP ERSD 201	XUYFPPERSD201

Dinel part number	=S= part number	Dinel part number	=S= part number	Dinel part number	=S= part number
FP BI BRIN A005 B	XUYFP2BRINA005B	1127	XUY1127	PA966S	XUYPA966S
FP PSD 60.5	XUYFPPSD605	AF400A	XUYAF400A	PL966S	XUYPL966S
FP PSC 60.5	XUYFPPSC605	A110	XUYA110	PACO966S	XUYPACO966S
FP ERSD 60.5	XUYFPPERSD605	A210	XUYA210	PLCO966S	XUYPLCO966S
FP PSD 100.5	XUYFPPSD1005	A211	XUYA211	AFV966S	XUYAFV966S
FP PSC 100.5	XUYFPPSC1005	A212	XUYA212	AFVCO966S	XUYAFVCO966S
FP PSD 200.5	XUYFPPSD2005	A220	XUYA220	AFP966S	XUYAFP966S
FP ERSD 100.5	XUYFPPERSD1005	A213	XUYA213	AFPCO966S	XUYAFPCO966S
FP PSN 201	XUYFPPSN201	A310	XUYA310	AFLCO966S	XUYAFLCO966S
FP PSN 101	XUYFPPSN101	A005	XUYA005	FLCF101 LC CLARYS	XUYFLCLFPCF101
FP PSNC 201	XUYFPPSNC201	A00510	XUYA00510	FLCF61 LC CLARYS	XUYFLCLFPCF61
FP PSN 301	XUYFPPSN301	A00550	XUYA00550	FLCP101 LC CLARYS	XUYFLCLFPCP101
FP PSN 501	XUYFPPSN501	C400	XUFZ11	FLCP61 LC CLARYS	XUYFLCLFPCP61
FP PX SD 201	XUYFPPXSD201	CAD30S	XUVF30M8	FLC HR25 101	XUYFLCLHR25101
FP PLD SD 201	XUYFPLDSD201	CAD60S	XUVF60M8	FLC HR25 61	XUYFLCLHR2561
FP PSM4 201	XUYFPPSM4201	CAD60X100S	XUYCAD60X100S	FLC HR70 101	XUYFLCLHR70101
FP PSM4 101	XUYFPPSM4101	CAD120S	XUVF120M12	FLC HR70 61	XUYFLCLHR7061
FPU PSN 201	XUYFPUPSN201	CAD180S	XUVF180M12	LCCLARYS 26C SP	XUYLCLAR26CSP
FPU PSL 201	XUYFPUPSL201	CAD250S	XUVF250M12	LCCLARYS 5D SP	XUYLCLAR5DSP
FPU PSN 301	XUYFPUPSN301	FRS120S	XUYFRS120S	LCCLARYS E2P	XUYLCLARE2P
FPU PSRD 201	XUYFPU PSRD 201	FRS180S	XUYFRS180S	9LC	XUY9LC
FPU PSM4 201	XUYFPUPSM4201	FRS250S	XUYFRS250S	B952R	XUYB952R
FP ERSN 201	XUYFPERSN201	1112	XUY1112	B952S	XUYB952S
FP ERSN 101	XUYFPERSN101	1115	XUY1115	B954R	XUYB954R
FP ERSNC 201	XUYFPERSNC201	1113	XUY1113	B954S	XUYB954S
FP ERSN 501	XUYFPERSN501	1114	XUY1114	P952R	XUYB952R
FPU ERSN 201	XUYFPUERSN201	1119	XUY1119	P952S	XUYB952S
FPU ERSL 201	XUYFPUERSL201	SC50	XUYSC50	P954R	XUYB954R
FPU ERSL 101	XUYFPUERSL101	SC25	XUYSC25	P954S	XUYB954S
FPU ER SRD1 201	XUYFPUERSRD1201	SCP25	XUYSCP25	R 8214 SP NO	XUA H0214
FPU ER SRD2 201	XUYFPUERSRD2201	1116	XUY1116	R 8224 SP NC	XUA H0224
FPC 61	XUYFPC61	1111	XUY1111	R CO 8214 SP NO	XUA H0214S
FPCFA 61	XUYFPCFA61	929	XUY929	R CO 8224 SP NC	XUA H0224S
FPCFC 61	XUYFPCFC61	9292	XUY9292	R 8214 SN NO	XUA J0214
FPCF 61	XUYFPCF61	9291	XUY9291	R 8224 SN NC	XUA J0224
FPCFM8 61	XUYFPCFM861	925	XUY925	R CO 8214 SN NO	XUA J0214S
FPCP 61	XUYFPCP61	9251	XUY9251	R CO 8224 SN NC	XUA J0224S
FPUCF 61	XUYFPUCF 61	CM122	XZCP1169L2	E 8203	XUA H0203
FPUCP 61	XUYFPUCP 61	CM125	XZCP1169L5	E CO 8203	XUA H0203S
FPC 101	XUYFPC101	CM82	XZCP0941L2	P 8515 SP NO	XUA H0515
FPC 151	XUYFPC151	CM85	XZCP0941L5	P 8525 SP NC	XUA H0525
FPDC 151	XUYFPDC 151	CM82C	XZCP1041L2	P CO 8515 SP NO	XUA H0515S
FPCFA 101	XUYFPCFA 101	CM128	XUYCM128	P CO 8525 SP NC	XUA H0525S
FPCFC 101	XUYFPCFC101	CM125C	XZCP1241L5	P 8515 SN NO	XUA J0515
FPDC 61	XUYFPDC61	CM85C	XZCP1041L5	P 8525 SN NC	XUA J0525
FPDCM8 61	XUYFPDCM861	AL96	XUYAL96	P CO 8515 SN NO	XUA J0515S
FPDC 101	XUYFPDC101	CM810	XZCP0941L10	P CO 8525 SN NC	XUA J0525S
FPDCM8 101	XUYFPDCM8101	92CG41E250	XUY92CG41E250	BAT P 0618 SP 2m	XUBTAPSNL2
FPCF 101	XUYFPCF101	92CG41E520	XUY92CG41E520	BAT P 0618 SP 5m	XUBTAPSNL5
FPCFM8 101	XUYFPCFM8101	92CG41R250	XUY92CG41R250	BLT P 0618 SP 2m	XUBTAPSWL2
FPCP 101	XUYFPCP101	92CG41R520	XUY92CG41R520	BLT P 0618 SP 5m	XUBTAPSWL5
FPUCF 101	XUYFPUCF101	92CGAMP230	XUY92CGAMP230	BAT P 0618 SN 2m	XUBTANSNL2
FPUCP 101	XUYFPUCP101	92CGAMP24	XUY92CGAMP24	BAT P 0618 SN 5m	XUBTANSNL5
FV PSD 61.5	XUYFVPSD615	92CGSOCAMP	XUY92CGSOCAMP	BLT P 0618 SN 2 m	XUBTANSWL2
FV PSL 61.5	XUYFVPSL615	P CO 925 L1 AN SP	XUYPCO925L1ANS	BLT P 0618 SN 5m	XUBTANSWL5
FV PSD 101.5	XUYFVPSD1015	P CO 925 L2 AN SP	XUYPCO925L2ANS	BAT P CO 0618 SP M12	XUBTAPSNM12
FV PSD 201.5	XUYFVPSD2015	B CO 929 L SP	XUYBCO929LSP	BLT P CO 0618 SP M12	XUBTAPSWM12
FV PTD 61.5	XUYFVPTD615	PC CO 929 L SP	XUYPCO929LSP	BAT P CO 0618 SN M12	XUBTANSNM12
FV PTL 61.5	XUYFVPTL615	PS CO 929 L1 SP	XUYPSCO929L1SP	BLT P CO 0618 SN M12	XUBTANSNM12
FV PTD 101.5	XUYFVPTD1015	PS CO 929 L2 SP	XUYPSCO929L2SP	BAT I 0618 SP 2m	XUBTSPSNL2
FV PTD 151.5	XUYFVPTD1515	BA946S	XUYBA946S	BAT I 0618 SP 5m	XUBTSPSNL5
FV PTD 201.5	XUYFVPTD2015	BL946S	XUYBL946S	BLT I 0618 SP 2m	XUBTSPSWL2
FV PTL201.5	XUYFVPTL2015	BACO946S	XUYBACO946S	BLT I 0618 SP 5m	XUBTSPSWL5
FV ERSD 61.5	XUYFVERSD615	BLCO946S	XUYBLCO946S	BAT I 0618 SN 2m	XUBTSPSNL2
FV ERSD 101.5	XUYFVERSD1015	PA946S	XUYPA946S	BAT I 0618 SN 5m	XUBTSPSNL5
FV ERSD 151.5	XUYFVERSD1515	PL946S	XUYPL946S	BLT I 0618 SN 2m	XUBTSPSNL2
FV ERTD 61.5	XUYFVERTD615	PACO946S	XUYPACO946S	BLT I 0618 SN 5m	XUBTSPSNL5
FV ERTD 201.5	XUYFVERTD2015	PLCO946S	XUYPLCO946S	BAT I CO 0618 SP M12	XUBTSPSNM12
FPPSN2005	XUYFPPSN2005	AFV946S	XUYAFV946S	BLT I CO 0618 SP M12	XUBTSPSWM12
FPPSNC2005	XUYFPPSNC2005	DCFCO966S	XUYDCFCO966S	BAT I CO 0618 SN M12	XUBTSPSNM12
FPPSD2002	XUYFPPSD2002	DCFCO966S	XUYDCFCO966S	BLT I CO 0618 SN M12	XUBTSPSNM12
FPPSN1405	XUYFPPSN1405	AFVCO946S	XUYAFVCO946S		
FPERSN2005	XUYFPERSN2005	AFP946S	XUYAFP946S		
FPERSNC2005	XUYFPERSNC2005	AFPCO946SBLEUE	XUYAFPCO946SBU		
FPERSD2002	XUYFPPERSD2002	AFPCO946S	XUYAFPCO946S		
FPERSN1405	XUYFPPERSN1405	AFV954R	XUYAFV954R		
1120	XUY1120	AFP954R	XUYAFP954R		
1121	XUY1121	PM984S	XUYPM984S		
1122R	XUY1122R	BAT1CO956S	XUYBAT1CO956S		
1123	XUY1123	BAT2CO956S	XUYBAT2CO956S		
1124	XUY1124	BA966S	XUYBA966S		
1125	XUY1125	BL966S	XUYBL966S		
1126	XUY1126	BACO966S	XUYBACO966S		
1126L	XUY1126L	BLCO966S	XUYBLCO966S		

RETRO-REFLEX DETECTION SENSORS

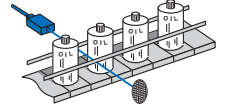
RETRO-REFLEX POLARISED AXIAL SENSOR



- Reference: **BA946 S**
 - Maximum sensing distance: 
 - on reflector \varnothing 46: **10 cm to 1 m**
 - on reflector \varnothing 84: **10 cm to 2 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP / NPN**
 - Teach-in
 - ON-delay or OFF-delay timer standard
 - Dimensions: 13x30x60 mm
- Insensibility to reflection interferences
 - Simple and quick set-up for self-teach (standard and sensitive mode)
 - Alignment indicator
 - Dirty optics indicator
 - Keyboard lock
 - Remote input for self-teach (sensitive mode)
 - Direct or inverse output
 - Universal static output
 - Cable or M8 plug
 - Polycarbonate strong housing

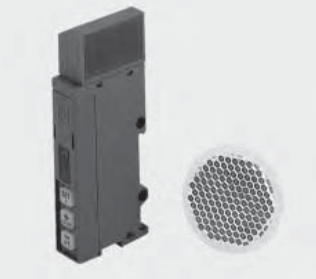
Applications:


- Position or presence control of parts on conditioning machine
- Through-beam on a conveyor
- Detection of shiny parts



Detection of shiny metallic cans

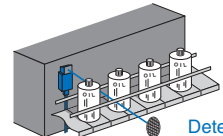
RETRO-REFLEX POLARISED LATERAL SENSOR



- Reference : **BL 946 S**
 - Maximum sensing distance: 
 - on reflector \varnothing 46 : **2 cm to 1 m**
 - on reflector \varnothing 84 : **2 cm to 2 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP / NPN**
 - Teach-in
 - ON-delay or OFF-delay timer standard
 - Dimensions: 13x30x78 mm
- Thickness reduced to 13 mm
 - Insensibility to reflection interferences
 - Simple and quick set-up for self-teach (standard and sensitive mode)
 - Alignment indicator
 - Dirty optics indicator
 - Keyboard lock
 - Remote input for self-teach (sensitive mode)
 - Direct or inverse output
 - Universal static output
 - Cable or M8 plug
 - Polycarbonate strong housing

Applications:


- Position or presence control of parts on conditioning machine
- Through-beam on a conveyor
- Detection of shiny parts



Detection of shiny metallic cans

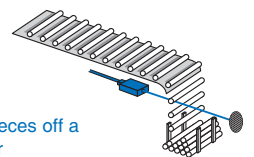
RETRO-REFLEX POLARISED AXIAL SENSOR



- Reference: **BA 966 S**
 - Maximum sensing distance: 
 - On reflector \varnothing 46 : **10 cm to 1 m**
 - On reflector \varnothing 84 : **10 cm to 2 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP / NPN**
 - Friendly adjustment by +/-
 - Bargraph
 - Dimensions: 13x30x60 mm
- Insensibility to reflection interferences
 - Simple adjustment
 - Sensitivity bargraph indicator
 - Maximum and minimum sensitivity indication
 - Keyboard lock
 - Direct / inverse output
 - Universal static output
 - Cable or M8 plug
 - Polycarbonate strong housing

Applications:


- Position or presence control of parts on conditioning machine
- Through-beam on a conveyor
- Detection of shiny parts



Count pieces off a conveyor

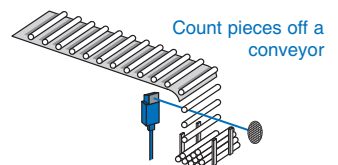
RETRO-REFLEX POLARISED LATERAL SENSOR



- Reference: **BL 966 S**
 - Maximum sensing distance: 
 - On reflector \varnothing 46 : **2 cm to 1 m**
 - On reflector \varnothing 84 : **2 cm to 2 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP / NPN**
 - Friendly adjustment by +/-
 - Bargraph
 - Dimensions: 13x30x78 mm
 - Thickness reduced to 13 mm
- Insensibility to reflection interferences
 - Simple adjustment
 - Sensitivity bargraph indicator
 - Maximum and minimum sensitivity indication
 - Keyboard lock
 - Direct / inverse output
 - Universal static output
 - Cable or M8 plug
 - Polycarbonate strong housing

Applications:


- Position or presence control of parts on conditioning machine
- Through-beam on a conveyor
- Detection of shiny parts



Count pieces off a conveyor

M18 CYLINDRICAL SENSOR FOR TRANSPARENT PRODUCTS



• Reference: **BAT 0618 S** 
BLT 0618 S

• Maximum sensing distance:

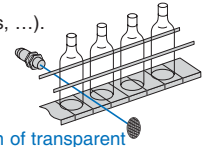
- On supply reflector
50 x 50 mm (1111HP) :
BLT : 0-80 cm
BAT : 0-140 cm

• Supply: 10 to 30 VDC
• Output: PNP / NPN
• Teach-in

- Simple and quick set-up for self-teach
- Anti Dust feature (Auto adjustment)
- Coaxial transmitter / receiver
- No blind zone
- Immunity to reflections interferences
- NO/NC by teach
- Output : PNP / NPN
- Plastic or Stainless Steel M18 enclosure
- M8 connector or cable

Applications:

- Through-beam on a conveyor: glass
- Detection of transparent parts (glass, PET,...)
- Bottle detection on blowmoulding machinery (PET, glass, ...).




Detection of transparent bottles (glass, PET,...)

SENSOR FOR TRANSPARENT PRODUCTS



• References: **BAT 1 956 S** 
BAT 2 956 S 

• Max. sensing dist. on reflect. 
50 x 50 mm :

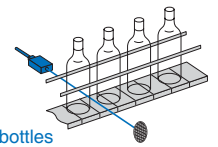
- **BAT 1 : 0 - 80 cm**
(Refl. between 0 and 80 cm)
- **BAT 2 : 0 - 140 cm**
(Refl. between 40 and 140 cm)

• Supply: **10 to 30 VDC**
• Output: **PNP / NPN**
• Teach-in
• ON-delay or OFF-delay timer standard
• Dimensions: 13x30x60 mm

- Simple and quick set-up for self-teach
- Coaxial emitter-receiver
- Insensitivity to reflection interferences
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach
- Direct or inverse output
- Universal static output
- M8 plugs
- Polycarbonate strong housing

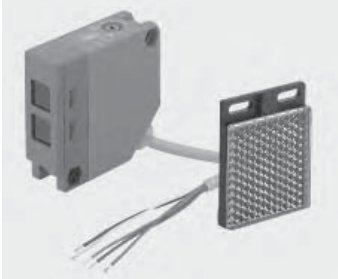
Applications:


- Through-beam on a conveyor: glass
- Detection of transparent parts (glass, PET,...)
- Bottle detection on blow moulding machinery (PET, glass,...)



Detection of transparent bottles (glass, PET,...)

RETRO-REFLEX POLARISED SENSOR



• Reference: **B 955 R** 

• Maximum sensing distance on reflector
50x50 mm :

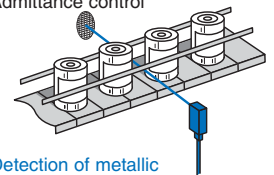
0,04 to 3,5 m

• Supply: **18 / 240 V AC/DC**
• Output: **relay**
• Dimensions: 18x50x50 mm

- Set-up with one round potentiometre
- On/Off indicator
- Signal indicator
- 2 m cable or M12 plug (contact NO only)
- ABS housing

Applications:


- Detection of shiny parts on material handling
- Detection on a conveyor
- Admittance control




Detection of metallic shiny parts

RETRO-REFLEX POLARISED SENSOR



• References: **B 954 S/R** 

• Maximum sensing distance on reflector \varnothing 84 mm : **6 m** 

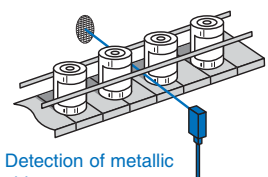
• Supply: **10 to 30 VDC or 20 to 250 V AC/DC**

• Output: **PNP / NPN ou relay**
• Teach-in
• ON-delay + OFF-delay timer standard
• Dimensions: 29x60x80 mm

- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote test input (S type) simulate the beam cut-off
- Direct or inverse output
- Connection on screw terminal
- Polycarbonate strong housing

Applications:



- Strip tearing sensing
- Handling
- Admittance control



Detection of metallic shiny parts

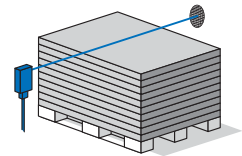
RETRO-REFLEX POLARISED SENSOR



- References: **B 952 S/R** 
 - Maximum sensing distance on reflector \varnothing 84 mm : **10 m** only B 952 S 
 - Supply: **10 to 30 VDC or 20 to 250 V AC/DC**
 - Output: **PNP / NPN ou relay**
 - Teach-in
 - ON-delay + OFF-delay timer standard
 - Dimensions: 29x60x80 mm
- Simple and quick set-up for self-teach (standard and sensitive mode)
 - Alignment indicator
 - Dirty optics indicator
 - Keyboard lock
 - Remote test input (S type) simulate the beam cut-off
 - Direct or inverse output
 - Connection on screw terminal
 - Polycarbonate strong housing

Applications:



- Parcels jam control
- Detection of shiny parts on materialhandling
- Admittance control



Control of pallets height

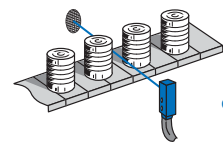
MINIATURE RETRO-REFLEX POLARISED SENSOR



- Reference: **B 989 S** 
 - Maximum sensing distance:
 - On reflector 50x50 mm : **1 m** 
 - On reflector \varnothing 84 : **1,5 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP or NPN**
 - Trimmer sensibility set-up
 - Dimensions: 10x13,5x40 mm
- Miniaturised
 - Integrated amplifier
 - Detection indication by LED
 - Lateral beam
 - Reflector inclus 50 x 50 (réf. 1111)
 - Direct /inverse output
 - Polarised visible light
 - 2 m cable or M8 plug
 - Strong housing
 - Cheap product

Applications:


- Control of position or presence of parts on machine, small conveyor, robot
- Detection of small parts, even shiny
- Small space positioning sensor



Metallic cans detection on a conveyor

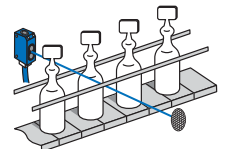
POLARISED RETRO-REFLEX MINIATURE SENSOR (LASER EMISSION)



- Reference: **B 929 LS** 
 - Sensing distance on reflector : **0,1 to 1 m**
 - Supply: **10 to 30 VDC**
 - Output: **PNP**
 - Teach-in
- Dimensions: 12x32x20 mm
 - Miniaturised
 - Integrated amplifier
 - Detection indication by LED
 - Red pulsed visible light
 - Laser class 2
 - Direct / inverse output
 - Remote teach-in • Functions lock
 - Dirty indicator
 - ABS housing
 - M8 plug

Applications:


- Small pieces control on manufacturing machines
- Sensors positioning where space is limited



Pharmaceutical flacons detection

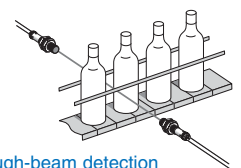
M8 MINIATURE CYLINDRICAL SENSOR IN THRU-BEAM MODE



- Reference: **R 82** 
 - Maximum sensing distance: 2 m
 - Supply: 10 to 30 VDC
- Miniature M8 sensor
 - Robust Enclosure
 - Integrated amplifier
 - Detection indication by LED
 - Cable or M8 onnector

Applications:

- Detection of opaque parts on a conveyor
- Control of presence of parts
- Control of parts on a robotopaque parts



Through-beam detection

MINIATURE SENSOR IN THROUGH/BEAM MODE



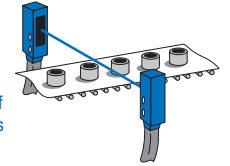
- Reference: **E/R 989 S**
- Maximum sensing distance: **4 m**
- Supply: **10 to 30 VDC**
- Output: **PNP ou NPN**
- Trimmer sensibility set-up
- Dimensions: 10x13,5x40 mm



- Miniaturised
- High sensing distance
- Integrated amplifier
- Detection indication by LED
- Direct /inverse output
- 2 m cable or M8 plug
- Strong housing

Applications:

- Detection of opaque parts on a conveyor
- Detection of opaque parts far away
- Control of parts position on a robot



Detection of rubber parts

THROUGH-BEAM SENSORS



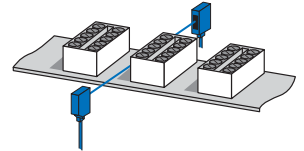
- Reference:
E 955 (Transmitter)
R 955 R (Receiver)
- Maximum sensing distance:
15 m
- Supply: **18 / 240 V AC/DC**
- Output: **relay**
- Dimensions: 18x50x50 mm



- On/Off indicator
- Signal indicator
- M12 plug (orientable)
- Relay output
- ABS housing
- Mounting bracket supplied

Applications:

- Material handling
- Conveyor
- Admittance control
- Automatic warehousing



Through-beam detection on a conveyor

RETRO-REFLEX POLARISED AXIAL SENSOR



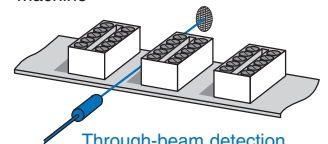
- References: **BA 598 S**
- Sensing distance on reflector
 $\varnothing 84$: **3 m**
- Supply: **10 to 30 VDC**
- Output: **PNP**
- Dimensions: M18x80 mm



- Function indicator
- Direct or inverse output
- Output: PNP
- M12 plug or cable
- Polyamid or short cylindric metallic M18 housing

Applications:

- Detection of opaque parts on a conveyor
- Control of position or presence of parts on assembly or conditioning machine



Through-beam detection on a conveyor

RETRO-REFLEX POLARISED LATERAL SENSOR



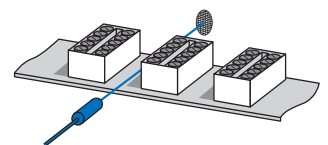
- References: **BL 598 S**
- Sensing distance on reflector on
 $\varnothing 84$: **3 m**
- Supply: **10 to 30 VDC**
- Output: **PNP**
- Dimensions: M18x80 mm



- Right angle optic
- Function indicator
- Direct or inverse output
- Output: PNP• M12 plug or cable
- Polyamid or short cylindric metallic M18 housing

Applications:

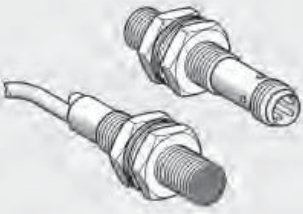
- Detection of reflecting or shiny parts
- Detection of parts on a conveyor



Through-beam detection on a conveyor

DETECTEURS DE PROXIMITE

M8 MINIATURE CYLINDRICAL DIFFUSE SENSOR



• Reference: **P 85**



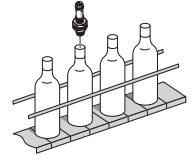
• Maximum sensing distance: 5 cm

• Supply: 10 to 30 VDC

- Miniature M8 sensor
- Robust Enclosure
- Integrated amplifier
- Detection indication by LED
- Cable or M8 connector

Applications:

- Small pieces control on Automatic assembly machines
- Sensor positioning where space is limited



Diffuse detection

DIFFUSE REFLECTION AXIAL SENSOR



• Reference: **PA 946 S**



• Adjustable sensing distance on reflector: **0 to 50 cm** on 100 x 100 mm white sheet 92%

• Supply: **10 to 30 VDC**

• Output: **PNP / NPN**

• Teach-in and +/-

• ON-delay or OFF-delay timer standard

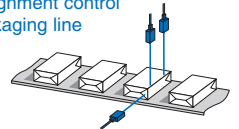
• Dimensions: 13x30x60 mm

- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- Direct or inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembly or conditioning machine
- Detection of opaque or transparent parts
- Control of parts in a container

Boxes alignment control on a packaging line



DIFFUSE REFLECTION LATERAL SENSOR



• Reference: **PL 946 S**



• Adjustable sensing distance on reflector: **0 to 45 cm** on 100 x 100 mm white sheet 92%

• Supply: **10 to 30 VDC**

• Output: **PNP / NPN**

• Teach-in and +/-

• ON-delay or OFF-delay timer standard

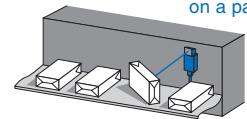
• Dimensions: 13x30x78 mm

- Thickness reduced to 13 mm
- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- Direct or inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembly or conditioning machine
- Detection of opaque or transparent parts
- Control of parts in a container

Box alignment control on a packaging line



DIFFUSE REFLECTION AXIAL SENSOR



• Reference: **PA 966 S**



• Max adjustable sensing distance on reflector: **50 cm** on 100 x 100 mm white sheet 92%

• Supply: **10 to 30 VDC**

• Output: **PNP / NPN**

• Friendly adjustment by +/-

• Bargraph

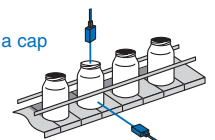
• Dimensions: 13x30x60 mm

- Simple adjustment
- Sensitivity bargraph indicator
- Maximum and minimum sensitivity indication
- Keyboard lock
- Direct / inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position control on an assembly or conditioning machine
- Detection of objects inside the bottle
- Detection of opaque or transparent objects

Presence of a cap on the bottle



DIFFUSE REFLECTION LATERAL SENSOR



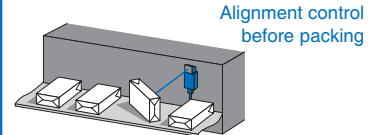
- Reference: **PL 966 S**
- Max sensing distance on adjustable reflector : **45 cm** on 100 x 100 mm white sheet 92%
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Friendly adjustment by +/-
- Bargraph
- Dimensions: 13x30x78 mm



- Thickness reduced to 13 mm
- Simple adjustment
- Sensitivity bargraph indicator
- Maximum and minimum sensitivity indication
- Keyboard lock
- Direct / inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembly or conditioning machine
- Detection of opaque or transparent parts
- Control of parts in a container



AXIAL DIFFUSE REFLECTION SENSOR



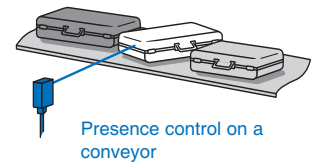
- Reference: **P 955 R**
- Adjustable sensing distance on white paper 92%:
20 cm to 1,50 m
- Supply: **18/240 VAC/DC**
- Output: **relay**
- Dimensions: 18x50x50 mm



- Set-up with one-round potentiometer
- On/Off indicator • Power on indicator
- Signal indicator
- 2 m cable or M12 plug (NO contact only)
- ABS housing
- Bracket supplied

Applications:

- Detection of transparent or opaque parts
- Detection for handling or medium size conveyor



DIFFUSE REFLECTION SENSOR



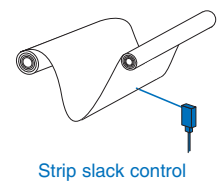
- References: **P 954 S/R**
- Adjustable sensing distance: **1.5 m** on 300x 300 mm white sheet
- Supply: **10 to 30 VDC or 20 to 250 V AC/DC**
- Output: **PNP / NPN ou relay**
- Teach-in and +/-
- ON-delay + OFF-delay timer standard
- Dimensions: 29x60x80 mm



- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote test input (S type) simulate the beam cut-off
- Direct or inverse output
- Connection on screw terminal
- Polycarbonate strong housing

Applications:

- Strip tearing sensing
- Handling
- Admittance control



DIFFUSE REFLECTION SENSOR



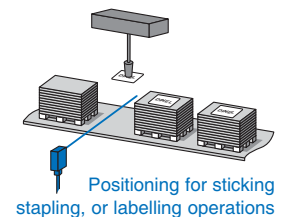
- References: **P 952 S/R**
- Adjustable sensing distance: **4 m** on white sheet 92% from 300x300 mm
- Supply: **10 to 30 VDC or 20 to 250 V AC/DC**
- Output: **PNP / NPN ou relay**
- Teach-in and +/-
- ON-delay + OFF-delay timer standard
- Dimensions: 29x60x80 mm



- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote test input (S type) simulate the beam cut-off
- Direct or inverse output
- Connection on screw terminal
- Polycarbonate strong housing

Applications:

- Strip tearing sensing
- Handling
- Admittance control



MINIATURE DIFFUSE REFLECTION SENSOR



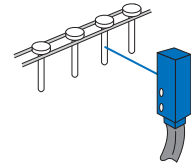
- Reference: **P 989 S**
- Adjustable sensing distance on reflector from 3 to 25 cm on white sheet 92% from 100x100 mm
- Supply: **10 to 30 VDC**
- Output: **PNP ou NPN**
- Trimmer sensibility set-up
- Dimensions: 10x13,5x40 mm



- Miniaturised
- Integrated amplifier
- Detection indication by LED
- Lateral beam
- Direct /inverse output
- Red pulsed visible light
- 2 m cable or M8 plug
- Strong housing
- Economical

Applications:

- Control of position or presence of parts on assembly machine
- Detection of opaque or transparent objects
- Small spaces positioning sensors



Control of metallic pins

DIFFUSE REFLECTION SENSOR



- References: **PAP 318 / 328 S**
PAM 318 / 328 S
PLM 318 / 328 S
- Maximum sensing distance:
- **318 fixeD : 0,10 m**
- **328 adjustable: 0,40 m** on white sheet 92% from 100x100 mm
- Supply: **10 to 30 VDC**
- Output: **PNP**
- Dimensions: M18x78 mm

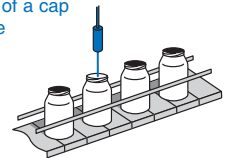


- Lateral and axial diffuse reflection sensor
- Fonction indicator
- Direct /inverse output
- Cable or M12 plug
- Polyamid or short cylindrical metallic M18 housing

Applications:

- Detection of various parts
- Control of position or presence of parts on a conveyor

Presence of a cap on a bottle



AXIAL DIFFUSE DETECTION ANALOGICAL SENSOR (LASER EMISSION)

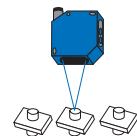


- Reference: **P 925 L1 AN S**
P 925 L2 AN S
P 925 L3 AN S
- Sensing distance:
P 925 L1 AN S : **40 to 60 mm**
P 925 L2 AN S : **45 to 85 mm**
P 925 L3 AN S : **80 to 300 mm**
- Supply: **18 to 28 VDC**
- Output analogical:
P 925 L1/L2: 0...10 V
P 925 L3: 4...20 mA
- Dimensions: 50x50x17 mm

- Detection indication by LED
- P 925 L1/L2 : no necessary setting
- P 925 L3 : setting by buttons
- Red pulsed visible light
- Laser class 2
- Minimum resolution: 0.01mm
- Analogical output:
P 925 L1/L2: 0...10 V
P 925 L3: 4...20 mA
- Antichock ABS housing
- Orientable M12 connector

Applications:

- Position control of an arm robot
- Thickness measurement of mechanical pieces



Dimensional control on a conveyor

PLASTIC FIBRE OPTICS AND PLASTIC FIBRE OPTIC SENSORS

PLASTIC FIBRE OPTIC SENSOR



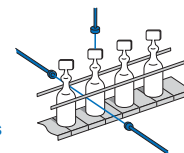
- Reference: **AF 400**
- Sensing dist with plastic fibre: see "Plastic Fibre Optics"
- Supply: **115 / 230 V AC**
- Output: **relay**
- Dimensions: 30x80x70 mm

- Self-cut plastic fibre
- Economical device
- Quick assembly of building blocks/modules
- Choice of six optics
- Plastic fibre sold by the meter
- Connecting block terminal
- ABS strong housing

Applications:

- Position or presence control of parts on assembly or conditioning machine
- Detection of opaque or transparent parts
- Control of parts in a container

Through-beam application in pharmaceutical plant with optics



PLASTIC FIBRE OPTIC SENSOR



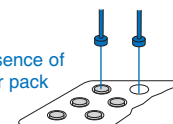
- Reference: **AFP 946 S**
- Sensing dist with plastic fibre: see "Plastic Fibre Optics"
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Teach-in
- ON-delay or OFF-delay timer standard
- Dimensions: 13x30x60 mm

- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- LO/DO output
- Direct or inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembling or conditioning machine
- Detection of translucent parts on little conveyor
- Plastic fibre use in vibrating surroundings

Control of presence of pills in a blister pack



PLASTIC FIBRE OPTIC SENSOR

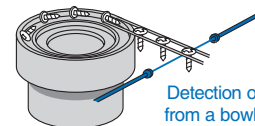


- Reference: **AFP 966 S**
- Sensing dist with plastic fibre: see "Plastic Fibre Optics"
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Friendly adjustment by +/-
- Bargraph
- Dimensions: 13x30x60 mm

- Simple adjustment
- Sensitivity bargraph indicator
- Maximum and minimum sensitivity indication
- Keyboard lock • Direct / inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembling or conditioning machine
- Detection of translucent parts on little conveyor
- Plastic fibre use in vibrating surroundings



Detection of a part from a bowl feeder

PLASTIC FIBRE OPTIC SENSOR



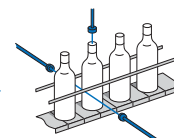
- Reference: **AFP 954 R**
- Sensing dist with plastic fibre: see "Plastic Fibre Optics"
- Supply: **20 to 250 V AC/DC**
- Output: **relay**
- Teach in
- ON-delay + OFF-delay timer standard
- Dimensions: 29x60x80 mm

- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Direct or inverse output
- Connection on screw terminal
- Polycarbonate strong housing

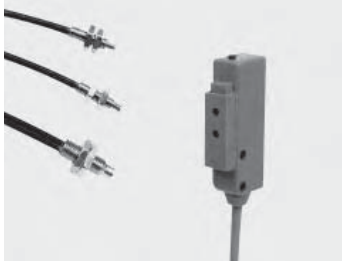
Applications:


- Position or presence control of parts on assembling or conditioning machine
- Detection of translucent parts on little conveyor
- Plastic fibre use in vibrating surroundings

Through-beam and direct sensing application with self-teach



PLASTIC FIBRE MINIATURE OPTIC SENSOR

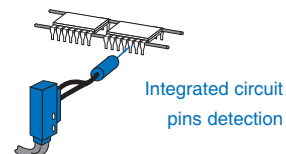


- Reference: **AFP 989 S** 
- Sensing distance on reflector avec fibre plastique : voir "Fibres Optiques Plastique"
- Supply: **10 to 30 VDC**
- Output: **PNP ou NPN**
- Trimmer sensibility set-up
- Dimensions: 10x13,5x40 mm

- Miniaturised
- Integrated amplifier
- Quick set-up of the plastic fibre
- Detection indication by LED
- Direct /inverse output
- Red pulsed visible light
- 2 m cable or M8 plug
- Inexpensive product


Applications:

- Detection of parts in a difficult access
- Plastic fibre use in vibrating surroundings
- Small spaces conditioning sensors



PLASTIC OPTIC FIBRES



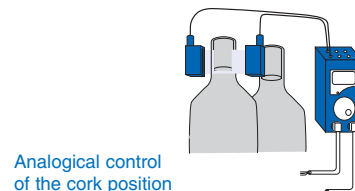
- Reference: **FP (E/R)** 
- Up to 80 mm diffuse reflection white paper 92%: **0 to 200 mm, up to 1200 mm** (with optics)
- With sensors:

- AFP 946 S
- AFP 954 R
- AF 400
- AFP 966 S
- AFP 989 S
- AF CLARYS

- Monofibre plastic (type FP)
- Multifibres: high mechanical resistance (type FPU)
- Useful diameter of the fiber 0.5 mm or 1 mm
- Sensing distance for a fibre length up to 2 meters
- Unexpensive product
- High use flexibility by adjustable length


Applications:

- Products detection on vibrating machines
- Applications with moving fibres



PLASTIC OPTIC FIBRES



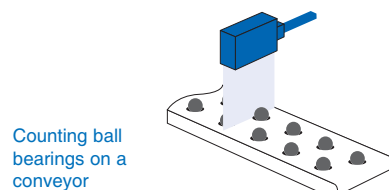
- Reference: **FP (P)** 
- Up to 80 mm diffuse reflection white paper 92%: **0 to 80 mm**
- With sensors:

- AFP 946 S
- AFP 954 R
- AF 400
- AFP 966 S
- AFP 989 S

- Monofibre plastic (type FP)
- Multifibres: high mechanical resistance (type FPU)
- Useful diameter of the fiber 0.5 mm or 1 mm
- Sensing distance for a fibre length up to 2 meters
- Unexpensive product
- High use flexibility by adjustable length

Applications:

- Products detection on vibrating machines
- Applications with moving fibres



GLASS FIBRE OPTICS AND GLASS FIBRE OPTIC SENSORS

GLASS FIBRE OPTIC SENSOR



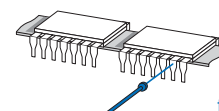
- Reference: **AFV 946 S**
- Sensing dist with glass fibre: see "Glass Fibre Optics"
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Teach-in and +/-
- ON-delay or OFF-delay timer standard
- Dimensions: 13x30x60 mm



- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Adjustable timer
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- Direct or inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembling or conditioning machine
- Detection of presence of parts in a plastic mould
- Detection under extreme conditions
- Glass fibre use in high-temperature surroundings (out of a furnace)



Example of detection by glass fibre of small parts

GLASS FIBRE OPTIC SENSOR



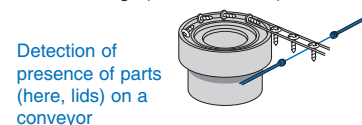
- Reference: **AFV 966 S**
- Sensing dist with glass fibre: see "Glass Fibre Optics"
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Friendly adjustment by +/-
- Bargraph
- Dimensions: 13x30x60 mm



- Simple adjustment
- Sensitivity bargraph indicator
- Maximum and minimum sensitivity indication
- Keyboard lock
- Direct / inverse output
- Universal static output
- Cable or M8 plug
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembling or conditioning machine
- Detection of presence of parts in a plastic mould
- Detection under extreme conditions
- Glass fibre use in high-temperature surroundings (out of a furnace)



Detection of presence of parts (here, lids) on a conveyor

GLASS FIBRE OPTIC SENSOR



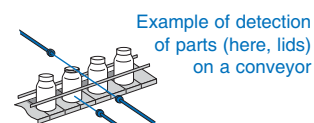
- Reference: **AFV 954 R**
- Sensing dist with glass fibre: see "Glass Fibre Optics"
- Supply: **20 to 250 V AC/DC**
- Output: **relay**
- Friendly adjustment by +/-
- ON-delay + OFF-delay timer standard
- Dimensions: 29x60x80 mm



- Simple and quick set-up for self-teach (standard and sensitive mode)
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Direct or inverse output
- Connection on screw terminal
- Polycarbonate strong housing

Applications:

- Position or presence control of parts on assembling or conditioning machine
- Detection of presence of parts in a plastic mould
- Detection under extreme conditions
- Glass fibre use in high-temperature surroundings (output of a furnace)



Example of detection of parts (here, lids) on a conveyor

GLASS FIBRE OPTIC IN THROUGH-BEAM MODE



- Reference: **FV (E/R)**
- Maximum sensing distance: **0 to 200 mm up to 3000 mm** (with optics)
- Usable amplifiers:
 - **AFV 946 S**
 - **AFV 954 R**
 - **AFV 966 S**



- Glass fibre 400 strands per mm
- Useful diameter of the fibre 1.2 mm
- Sensing distance given for a fibre length up to 1 meter

Applications:

- Detection in a high-temperature environment (up to 200°)
- Detection in corrosive environment
- Application requiring high performances

GLASS FIBRE OPTIC IN REFLECTIVE MODE



CE

- Reference: **FV (P)**
- sensing distance: **0 to 80 mm**
- Usable amplifiers:
 - **AFV 946 S**
 - **AFV 954 R**
 - **AFV 966 S**

- Glass fibre 400 strands per mm
- Useful diameter of the fibre 1.2 mm
- Sensing distance given for a fibre length up to 1 meter

Applications:

- Detection in a high-temperature environment (up to 200°)
- Detection in corrosive environment
- Application requiring high performances

MULTICHANNEL SENSOR FOR OPTICAL PLASTIC AND GLASS FIBRES

MULTICHANNEL SENSOR FOR OPTICAL FIBRES



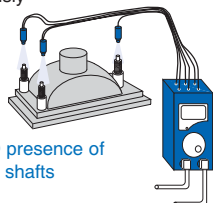
CE

- Reference: **AF CLARYS 2,3,4**
- Sensing distance with plastic fibre or glass fibre: see "Plastic Optical Fibres" or "Glass Optical Fibres"
- High resolution: up to 5/100th mm
- 2,3,4 channels+ logical output AND/OR
- Models: output P, output N
- Optional: Analogical output
- Simple teach-in: 1 or 2 thresholds
- Timer ON/OFF delay: 0 to 10s
- Dimensions: 99x45x325 mm

- Resolution: 5/100th mm with 2000 points
- Auxiliary output with options:
 - AND/OR on main outputs
 - Beyond/above distance in window mode on one channel
 - Alarm
- Optional analogical output: 4-20mA, signal copy of one channel with 1000 points, direct or inverse
- LO/DO on each channel
- Temperature compensation
- Anti-interference on 4 channels
- Settings back-up on a removable E2 PROM
- 2 languages on request: French, English, German, Spanish, Italian...

Applications:

- Level controls: high and low
- High precision detection of movement
- Presence detection, up to 4 units simultaneously
- Up to 4 beams barrier
- Mark detection



Function AND presence of the 3 grooved shafts

FORK AND FRAME SENSORS

FRAME SENSOR



CE

UL US

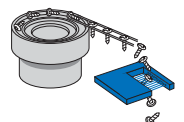
- References: **CAD 30 S**
CAD 60 S
- Spread: **30x30 mm** or **60x60 mm**
- Supply: **24 VDC**
- Output: **PNP / NPN**
- Adjustable timer
- Built-in amplifier
- Detectable minimum object: **2 mm**
- Dimensions:
 - CAD 30 : 15x50x108 mm
 - CAD 60 : 15x86x131 mm

- Simple and quick adjustment by potentiometer
- Dirty optics indicator
- Output indicator
- Faulty supply indicator
- Direct or inverse output
- Built-in amplifier
- M8 plug
- Painted aluminium strong housing
- Minim object size detected: 2 mm

Applications:

- Detection of parts of various material (plastic or metal), various shape and colour while in motion
- Counting of parts
- Tools protection by ejection control of parts from press

Detection of parts at the output of a bowl feeder



FRAME SENSOR



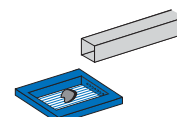
- References: **CAD 120 S**
CAD 180 S
CAD 250 S
- Spread: **120 to 250 mm**
- Supply: **24 VDC**
- Outputs: **PNP / NPN**
- Adjustable timer
- Amplificateur intégré
- Dimensions: 25x230x205 mm
to 25x230x335 mm
according to the type



- Simple and quick adjustment by potentiometer
- Dirty optics indicator
- Output indicator
- Faulty supply indicator
- Mechanical protection of the optics
- Direct or inverse output
- Built-in amplifier
- M12 plug
- Painted aluminium strong housing
- Minim object size detected: 4 mm

Applications:

- Detection of parts of various material (plastic or metal), various shape and colour while in motion
- Counting of parts
- Tools protection by ejection control of parts from press



Ejection control at the output of a press

FRAME SENSOR



- References: **FRS 120 S**
FRS 180 S
FRS 250 S
- Spread: **120 to 250 mm**
- Supply: **24 VDC**
- Output: **PNP / NPN**
- Adjustable timer
- Dimensions: 25x230x205 mm
to 25x230x335 mm
according to the type

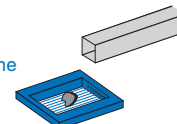


- Inexpensive product designed to detect any product in a spread from 120 x 200 mm to 250 x 200 mm
- Minimum object size detected: 10 mm
- Universal static output
- M12 plug
- Painted aluminium strong housing

Applications:

- Comptage de pièces
- Contrôle d'éjection de pièces en sortie de machine d'injection plastique
- Détection de passage de pièces to travers un conduit translucide
- Détection d'objets par gravité or accéléré

Ejection control at the output of a press



NEPTUNE OPTICAL FORKS



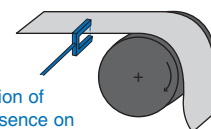
- Reference: **F NEPTUNE**
- Spread: **2 to 120 mm**
- Depth: **42 to 95 mm**
- Supply: **10 to 30 VDC**
- Outputs: **PNP and NPN independent**
- High sensitivity
- Ultra high-speed detection: **10 kHz**
- Dimensions: 10x57x32 mm
to 10x110x150 mm
according to the type



- Potentiometric set-up type (green keyboard)
- Teach-in set-up type background / object (yellow keyboard)
- Keyboard locking
- Direct / inverse (L/D)
- Independent PNP and NPN outputs
- Output indicator
- Function indicator
- M8 connector
- Metal and polyamid/glass housing

Applications:

- Detection of label
- Detection of double sheet
- Detection of marks
- Detection on a conveyor
- Detection on a vibrating rail



Verification of strip presence on a printing machine.

FOURCHES OPTIQUES NEPTUNE LASER



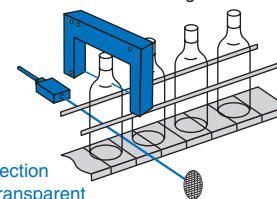
- Reference: **FL NEPTUNE**
- Spread: **2 to 120 mm**
- Depth: **42 to 95 mm**
- Supply: **10 to 30 VDC**
- Sorties : **PNP and NPN independent**
- High sensitivity
- Ultra high-speed detection: **10 kHz**
- Dimensions: 10x57x32 mm
to 10x110x160 mm
according to the type



- LASER : modulated red Class I 670 nm
- Potentiometric set-up type (green keyboard)
- Teach-in set-up type background / object (yellow keyboard)
- Keyboard locking
- Direct / inverse (L/D)
- Independent PNP and NPN outputs
- Output indicator
- Function indicator
- M8 connector
- Metal and polyamid/glass housing

Applications:

- Detection of marks
- Detection of transparent object
- Detection on a vibrating rail



Detection of transparent bottles (glass, PET...)

FORK SENSOR



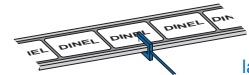
- Reference: **F 95 S**
- Spread: **2 to 225 mm**
- Supply: **10 to 30 VDC**
- Outputs: **PNP / NPN**
- High sensitivity
- High speed of detection
- Integrated Amplifier
- Dimensions: 12x60x37mm to 12x77x158 mm according to the type



- Simple and accurate adjustment by potentiometer (25 rotations)
- Output indicator
- Direct / inverse output
- Universal static output
- M8 plug
- Painted aluminium strong housing

Applications:

- Lateral shift control of a belt
- Handling: control of tools travel
- Detection of sheets over-lapping
- Detection of marks on a translucent film
- Lift cage position control



Detection of labels on a strip

TEACH-IN FORK SENSOR



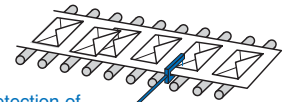
- Reference: **FA 98 S**
- Spread: **3 mm or 5 mm**
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Teach-in automatic set-up
- High speed of detection
- Integrated Amplifier
- Dimensions: 12x37,5x80 mm



- Simple and quick teach-in set-up
- High speed of detection
- Integrated Amplifier
- Set-up on the fork or by external input
- Set-up lock
- Output indicator
- Direct / inverse output
- Universal static output
- M8 plug
- Anodised aluminium strong housing

Applications:

- Position control on a moving belt
- Detection of tags on a conveyor
- Detection of "double sheet"
- Mark detection on a translucent film



Detection of envelop superposition

PRODUITS SPECIFIQUES

DIFFUSE DETECTION SENSOR WITH DOUBLE TRIANGULATION



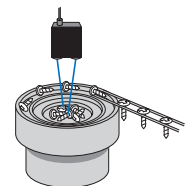
- Reference: **PS2 945 S**
- Adjustable sensing distance on reflector: **50 to 600 mm**
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Timer standard
- High accuracy in distance
- Dimensions: 18x60x60 mm



- Four operating modes:
 - two independent triangulation sensors
 - reflections immunity
 - distance control
 - contrasted objects detection
- Direct or inverse output
- Universal static output
- Cable or M8 plug
- Polyamide strong housing

Applications:

- Filling control
- Level detection in a bowl feeder



Level detection in a bowl feeder using mode "two independent triangulation sensors"

LASER DIFFUSE DETECTION SENSOR



- Reference: **PS1 L 965 S**
- Adjustable sensing distance: **50 to 300 m**
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- ON-delay or OFF-delay timer standard
- High accuracy
- Dimensions: 18x60x65 mm



- Emission by visible red light
- Spot size by adjustable focus
- Distance adjustment by precision screw
- Direct and inverse function
- Programmable timer to 40 ms max
- Laser class 2
- On / Off function

Applications:

- Control of small parts on a production machine
- Detection of components on a printed circuit
- Presence control of crack in a part
- Level control
- Elimination of background



Break control of a drill on a tool-machine

MINIATURE SENSOR WITH BACKGROUND SUPPRESSION



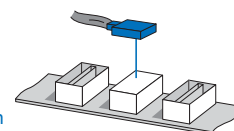
- Reference: **PS 989 S**
- Adjustable sensing distance: **1,5 to 8 cm**
- Supply: **10 to 30 VDC**
- Output: **PNP ou NPN**
- Set-up by precision screw
- Dimensions: 13x32x20 mm

- Miniaturised
- Integrated amplifier
- Detection indication by LED
- Indication of short-circuit on the output by blinking LED
- Lateral beam
- Background suppression
- Direct /inverse output
- Red pulsed visible light
- 2 m cable or M8 plug

Applications:

- Control of position or presence of parts with background suppression
- Detection of object height on a conveyor
- Detection of solid granulates level

Detection of box covers on a conveyor



PLASTIC FIBRE OPTIC BRIGHTNESS SENSOR

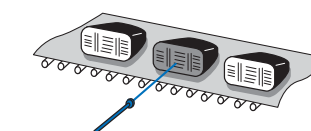


- Reference: **AFL 966 S**
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- Friendly adjustment by +/-
- Adjustable timer
- Dimensions: 13x30x60 mm

- Simple and quick set-up for self-teach (standard and sensitive mode)
- Positioning indicator
- Adjustable timer
- Detection limit indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- Direct /inverse output
- Universal static output
- M8 plug
- Polycarbonate strong housing

Applications:

- Functional test of signal lamps on domestic appliances
- Head-lights tests on assembly line



Car head-light test on an assemblyline

MARKS AND CONTRASTS SENSOR

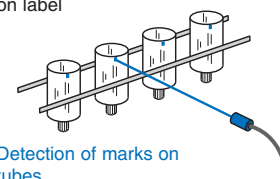


- Reference: **DCF 966 S**
- Détecteur de repères to apprentissage automatique
- Supply: **10 to 30 VDC**
- Output: **PNP / NPN**
- White light spot: **ø 1,5 mm**
- Very high speed: **20 KHz**
- Dimensions: 13x30x60 mm

- Set-up by learning background and mark
- Detection by optic fibre with coaxial lens
- Indicator of contrast default
- Short-circuit indicator
- Direct /inverse output
- Universal static output
- M8 plug
- Polycarbonate strong housing

Applications:

- Detection of marks:
 - on packagings
 - in printing machinery
 - detection on difficult access area
 - on label



Detection of marks on tubes

HIGH PRECISION COLOUR SENSOR

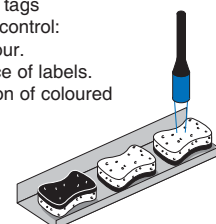


- Reference: **LC CLARYS**
- Detection of 1 to 26 recorded colours
- Supply: **12 / 30 VDC**
- Output: PNP
- Teach-in
- Sensing distance 2..70mm depending on fiber

- Screen/access menus:
 - general parametering
 - display of colour n° recognised
 - selection of colour
 - high performance teaching
- Knurled selection and setting wheel
- Removable memory option
- Detection of 1 to 26 recorded colours
- High performance colour detection through easy to use self teach and menus
- LCD Display
- Output: PNP
- Connecteur M8

Applications:

- Detection of little marks and colored tags
- Quality control:
 - lids colour.
 - presence of labels.
- Detection of coloured wires



Verification of the direction of the sponge.

DIFFUSE REFLECTION MINIATURE SENSOR WITH BACKGROUND SUPPRESSION (LASER EMISSION)



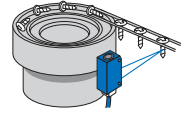
- Reference: **PS 929 L1 S**
PS 929 L2 S
- Sensing distance on adjustable reflector:
PS 929 L1 S : **1 to 6 cm**
PS 929 L2 S : **3 to 11 cm**
- Supply: **10 to 30 VDC**
- Output: **PNP**
- Teach-in
- Dimensions: 12x32x20 mm



- Miniaturised
- Integrated amplifier
- Detection indication by LED
- Red pulsed visible light
- Laser class 2
- Background suppression
- Direct / inverse output
- Remote teach-in
- Functions lock
- Dirty indicator
- ABS housing
- M8 plug

Applications:

- Small pieces control on manufacturing machines with background suppression
- Sensors positioning where space is limited



Detection of a small object out of a feeding bowl

COLOUR SENSOR WITH MICROPROCESSOR



- References: **LC 2001** (1 colour)
LC 2004 (4 colours)
- Choose between 7 sensing fibres:
- fibre tips from **ø1.8 to ø18 mm**
- sensing distance from **2 to 60 mm**
- Supply: **24 VDC**
- Outputs: **PNP / NPN**
- Response time: **1 ms or 20 ms according to the mode**
- Dimensions: 61x26x125 mm

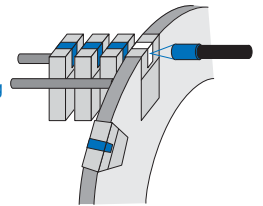


- Detection of one to four recorded colours
- Fibres (see info sheet)
- Focalized beam with FPCF fibre
- Diffuse reflection with FPCF fibre
- Simple and quick set-up for self-teach (large, standard or thin discrimination)
- External input for self-teach (channel1)
- Adjustable timer
- Direct or inverse output
- Keyboard lock
- Universal static output
- M12 plugs
- Polycarbonate strong housing

Applications:

- Detection of little marks and colored tags
- Quality control
- Detection of colored wires
- Detection of translucent colored parts
- Sorting out of colored parts

Verification of the closing strip



MULTISENSORS LOGICAL MODULE



- Reference: **MC 97**
- Sensor connections: **1 to 6**
- Supply: **12 to 30 VDC**
- Output: **PNP or NPN**
- Use in mode "AND" or "OR"
- Visualisation of inputs and the output by LEDs
- Dimensions: 25x79x100 mm



- Compatible connections for:
 - any PNP sensor
 - any DINEL sensor
 - any dry contact
- Programmable logical "AND" or "OR", "LO/DO" function by wiring
- Plug terminal
- DINrail mounting
- Plastic housing

Applications:

- Remote control
- Save money on wiring
- PLC connection simplification

DETECTEUR MINIATURE DE CONTRASTE (EMISSION LASER)



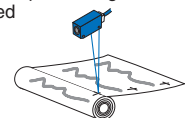
- Reference: **PC 929 LS**
- Sensing distance on reflector réglable : **4 to 15 cm**
- Supply: **10 to 30 VDC**
- Output: **PNP**
- Teach-in
- Dimensions: 12x32x20 mm



- Miniaturised
- Integrated amplifier
- Detection indication by LED
- Red pulsed visible light
- Laser class 2
- Direct / inverse output
- Remote teach-in
- Functions lock
- Dirty indicator
- ABS housing
- M8 plug

Applications:

- Mark detection:
 - on packing
 - on labels
 - on paper films, plastic...
- Sensors positioning where space is limited



Detection of marks on packaging paper