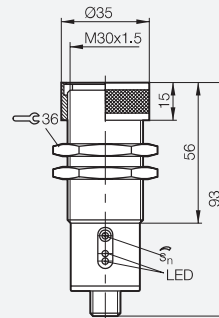


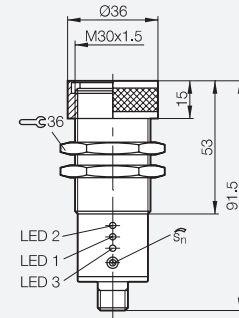
Housing size
Diffuse Sensing range

M30x1.5
2m with daylight filter
and potentiometer

M30x1.5
2m with daylight filter
and potentiometer



PX0894



PX0226

Diffuse

PNP	○ / ●	selectable	①
PNP/NPN	○ / ●	selectable	⑨

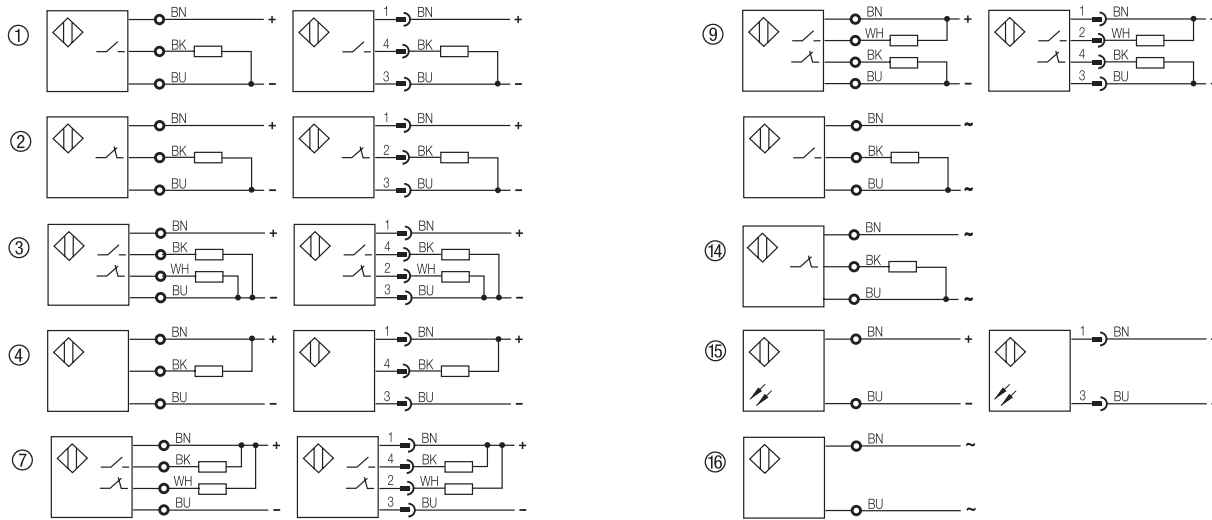
BOS 30M-PU-1PH-SA3-C

BOS 30M-GA-1PH-S4-C

Supply voltage	10...30 V DC	10...30 V DC
Voltage drop	< 2,4V	< 2V
Rated isolation voltage	75 V DC	75 V DC
Rated operational current	200mA	200mA
No-load supply current	< 40mA	< 20mA
Short circuit protected	yes	yes
Permissible capacitance	1µF	1µF
On/Off delay	5ms	33ms
Frequency of operating cycles	100Hz	15Hz
Utilization category	DC13	DC13
Output	PNP	PNP/NPN selectable
Output function	○ / ● selectable	○ / ● selectable
Permissible ambient light	1000 Lux	1000 Lux
Sensitivity adjustment	yes	yes
Output function indication	yes	yes
Stability indication	yes	yes
Ambient temperature range	-5...+55°C	-5...+55°C
Degree of protection per IEC 529	IP65	IP65
Emitter light source	Infrared (880nm)	Infrared (880nm)
Housing material	Nickel plated brass	Nickel plated brass
Material sensing face	Glass	Glass
Connection	Connector	Connector
Weight	230g	230g
Recommended connector	BKS-S 19/BKS-S 20	BKS-S 19/BKS-S 20
○/● = Light-On/Dark-On		

Note: Sensing range can be reduced to 1m by switch located under removable lens cap. Also, light-on/dark-on mode is selected by switch under lens cap.

Wiring Diagrams



2

Green stability display only on BOS 18M-...-KX-... and BOS 18M-...-QB-...

The green stability display illuminates in the “safe” range, where the input energy is at least 30% over or under the “threshold energy”.

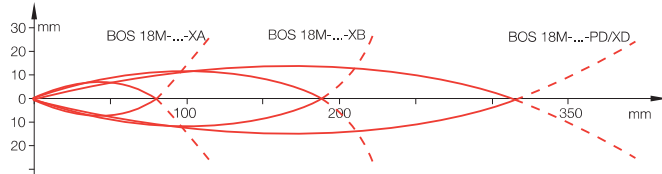
The “threshold energy” at which a signal change is effected, is defined as 100 %. The “safe” range is therefore reached when:

–the input signal is at 130 % or more of the threshold energy.

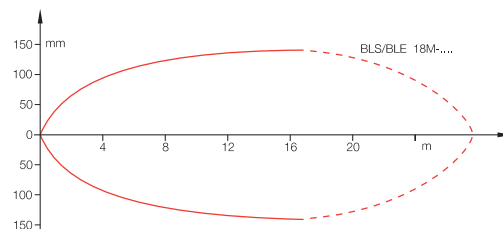
–the input signal is at 70% or less than the threshold energy.

	Stability (green LED)	Output (red LED)	
	light-on	dark-on	
stable	on	off	130%
unstable	off	on	switching threshold = 100%
	off	off	70%
stable	on	on	0%

Diffuse references to Kodak white card with 90 % reflection



Range Thru-Beam



Retroreflective Range using Reflector R1 Ø80 mm

